CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ALBERTA NORTHWESTERN.—Application has been made to Parliament to authorize the construction of a line from a point on the Calgary & Edmonton Ry., between Olds, Alta., and Red Deer northwesterly to Rocky Mountain House, on the North Saskatchewan River, and thence westerly to Kootenay Plains in the Rocky Mountains; also for a line from Bighorn, on the North Saskatchewan River, northwesterly to connect with the Grand Trunk Pacific.

APALACHICOLA NORTHERN.—This company contemplates the construction next year of an extension from Apalachicola to St. Joseph's, Fla., 20 miles, contingent upon financial conditions improving. Company now operates 80 miles of line connecting Apalachicola with River Junction. R. B. Coleman is Gen. Mgr., Apalachicola.

BAINBRIDGE NORTHEASTERN. — This company is building a railroad from Bainbridge northeast to Pelham, Ga. The company's charter calls for a line 70 miles long, traversing the counties of Mitchell, Thomas, Grady and Decatur, and extending through Florida to a point on the Gulf of Mexico. Capital stock, $200,000. Incorporators are: E. Swindell, J. Swindell, L. H. Tonge, E. J. Willis, Lee Parker, L. F. Patterson, B. E. Russell, B. B. Bower, Jr., J. C. McCaskill, R. O. Allen, Mitchell James and B. B. Lane, all of Bainbridge, Ga.; May Swindell Deegan and M. Swindell, both of Winnipeg, Man.; R. G. Porter, of Apalachicola, Fla.; G. W. Saxon, of Tallahassee, Fla.; N. F. Mallard, of Swindell, Ga.; M. P. Flint, of Chattanooga, Tenn.; and L. E. Gellerstadt, of Troy, Ala.

BAT CAVE R. R.—This company, which was recently chartered in North Carolina to build a line from Rutherfordton, N. C., to Bat Cave and Chimney Rock, 20 miles, probably will begin construction work in January. The APPALACHIAN CONSTRUCTION CO. of Asheville, N. C., has the contract. Capital stock authorized, $125,000. The incorporators are T. C. McNeeley, of Marion, S. C.; and W. A. Smith and W. A. Garland, of Hendersonville, N. C.

BRINSON RY.—An extension to Sylvania, Ga., will be built next year. It now runs from Springfield, Ga., to Blandford, Coldbrook, Keller, Godley's Mill and Savannah, 25 miles. Geo. M. Brinson is Pres. and Mgr., Springfield, Ga.

CALIFORNIA.—A company has been organized at San Diego, Cal., under the title of the Federal Construction League. It plans to invoke the aid of the Federal authorities in the construction of a double-track railway between Spokane, Wash., and Yuma, Ariz. W. R. Andrews is Pres.; L. S. McLure is Chn. of Finance Com.; and Lewis Harris is Chn. of Eng. Com., all of San Diego.

CANADIAN NORTHERN. — Application will be made to Parliament for an extension of time for commencing and completing the following lines: From a point south of the line between Winnipeg, Man., and Ste. Anne to the international boundary; from a point between Port Arthur, Ont., and Ft. Frances, Ont., to Quebec, Que., with branches at Port Arthur, Ottawa and Montreal; from Battleford, Sask., westerly to the Brazeau River; from Regina, Sask., to Humboldt and via Carrol River to Pas Mission; and from a point between Humboldt and South Saskatchewan River to crossing of same river south of Prince Albert. The petition also asks for authority to increase the capital stock by $19,250,000.

This company has given notice of application to Parliament for an act authorizing the construction of the following lines in western Canada: Humboldt, in Saskatchewan, southwest to Calgary; from Brandon-Regina line near west boundary of Manitoba, westerly to Lethbridge; from North Battleford northwesterly to Athabaska landing, with a branch to Green Lake; from the Strathcona-Alberta line southerly to Calgary, with a branch to connect with authorized line from Regina to Red Deer River; from Regina southwesterly to the international boundary; from Edmonton to headwaters of the McLeod and the Brazeau Rivers; from Russell, Man., via Yorkton to authorized line near Goose Lake, Sask.; from a point south of Neepawa, Man., to the main line crossing of the South Saskatchewan River. M. H. McLeod, Ch. Engr., Winnipeg, Man.

CHARLOTTE HARBOR & NORTHERN.—It is proposed to build an extension from Arcadia, Fla., to Plant City, Fla., 60 miles. Company now operates 50 miles of line, connecting Bocagrande with Arcadia. Geo. S. Bruce is Ch. Engr., Hull, Fla.; L. M. Fouts is Second Vice-Pres. and Gen. Mgr., 5 Nassau St., New York.

CINCINNATI, BLUFFTON & CHICAGO.—Right-of-way has been secured for an extension of the C., B. & C. R. R. from Bluffton, Ind., to Huntington, 22 miles. Surveys are made, all grading completed and several miles of track laid. Tracklaying will be started this month and the work rushed to complete the line into Huntington in time to claim the subsidy of $98,000, to get which the company must run a train into Huntington by Jan. 1. The company now operates 30 miles of line connecting Bluffton, Reiffsburg, Petroleum, Nottingham, Fiat, Balbec, Pennville, Corkwell and Portland. John C. Curtis is Gen. Mgr., at Bluffton.

COLORADO & SOUTHERN.—We are officially informed that no extension from Keystone to Montezuma, Colo., is proposed for the near future. Noted on Oct. 31.

EDMONTON, YUKON & PACIFIC.—Application has been made to Parliament to authorize the construction of branch lines to Vancouver, B. C., and to the headwaters of the McLeod and the Brazeau Rivers.

GRAND TRUNK PACIFIC.—We are officially advised that charter is held by the G. T. P. Ry. Co. for a line from Fort George to Vancouver, B. C. Henry Phelps, Secy.; B. B. Kelliher, Ch. Engr., Montreal. As noted on Oct. 17, "Charles M. Hays, Pres., Montreal, Que., recently stated that this company intended ultimately to build from Fort George to Vancouver, B. C., but that this line, like most of the branches, would be deferred until the main line was completed."

LOUISIANA & ARKANSAS.—Announcement is made that this "company has indefinitely deferred construction on extensions aggregating about 65 miles on account of the general hostility toward corporations and the financial stringency." F. W. Green is Gen. Supt., Stamps, Ark. Company now operates 225 miles of line, between Hope and Alexandria, La.; also a branch from Winnfield to Vidalia, La. W. H. Vance is Res. Engr., Stamps, Ark.

MIDLAND VALLEY.—An extension from Arkansas City to Wichita, Kan., is planned for next year, according to the Little Rock (Ark.) "Gazette." The road now operates from Ft. Smith, Ark., to Arkansas City, Kan., 273 miles. C. Kaighn is Res. Engr., Muskogee, Okla.

MOSCOW, CAMDEN & SAN AUGUSTINE.—An extension may be built next year eastward to connect with the Missouri, Kansas & Texas Ry., a distance of about eight miles. Line is now built from Camden to Moscow, Tex., seven miles. W. T. Carter is Pres., Camden, Tex.

NORTHERN RAILWAY OF MAINE.—Edson E. Goodrich, Pres., 27 Elm St., Waterville, Me., writes us that construction contracts will be let about May 1, 1908. The line has not yet been surveyed and no contracts have been let. The road will be built to handle lumber and farm products principally. Maximum curves will be 6° and the maximum grades 1½%; 80-pound rails will be used. Right-of-way and capital are partly obtained. H. F. Hull, Augusta, Me., is Ch. Engr. The road will extend from Van Buren to St. Francis, Me., 62 miles. This company, authorized under a special act passed by the last legislature and intended to connect two branches of the Bangor & Aroostook, has filed its certificate of organization as noted on Oct. 10. The capital stock is $500,000. The purpose is to build and operate a railroad from the terminus of the Bangor & Aroostook at Fort Kent, Me., in a westerly direction across the Fish River, through the plantations of St. John and St. Francis, 16 miles, to a point nearly opposite the mouth of the St. Francis River; also from Fort Kent in a northerly and easterly direction through Frenchville, Madawasha, Grant Isle and Van Buren, a distance of 45 miles, to connect with the Bangor & Aroostook terminus at Van Buren, Me. The directors and officers are: Patrick Theriault, of Grant Isle; Vincent M. Theriault, of Fort Camp, and Matthew F. Goodrich.

NORTHWESTERN PACIFIC.—Construction has been temporarily stopped on this road, which was being built from Willets to Shively, Cal., 110 miles, it is stated. A. H. Payson is Pres., and W. C. Edes, Ch. Engr., San Francisco, Cal.

RANDOLPH & CUMBERLAND.—Surveys for the extension of this road from Hallison, the present terminus, to Ramseur, N. C., have been completed as far as Cheeks, 13 miles north of Hallison. The proposed extension reaches Ramseur by the way of Tillman, High Falls, Cheeks and Enterprise. Principal contracts are not yet ready to be let. Ira A. McCormack is Pres., Carthage, N. C.; M. H. Caldwell, Vice-Pres., Carthage; B. M. Fellows, Treas., 111 Broadway, New York; and W. C. Cram, Jr., is Ch. Engr., Hallison, N. C. Noted on Aug. 29. The railroad now runs from Cameron to Carthage and Hallison, N. C., 18 miles.

SEWELL VALLEY.—Incorporated in West Virginia with a capital of $100,000, to build from a point in Greenbrier County, West Virginia, near the mouth of Big Sandy Creek, to a point in Summers County, West Virginia, near the mouth of Meadow Creek. The headquarters of the company will be at Evenwood, W. Va. The incorporators are: T. W. Raine, Evenwood; C. W. Harding and Leslie Harding, Beverly, W. Va.; Charles E. Andrews, Jr., New Bethlehem, Pa., and John Raine, Granville, Ohio.

TECOLATE VALLEY.—Construction contracts may be let soon for building this railway from East Las Vegas, N. Mex., north via Mineral Hill mining district, passing within five miles of Mora, the county seat of Mora County, to Black Lake, thence west to Taos, about 80 miles. All of this with the exception of 22 miles will be in the mountainous section, and will necessitate the piercing of a number of tunels. At Las Vegas the company's shops will be built, and a line is projected from that point south to the Tecolate mining district. Survey has been made for distance of three miles. Right-of-way is obtained. Frank J. Buck is Ch. Engr., Elizabethtown, N. Mex. W. H. Colburn is Pres. The offices of the company are at Las Vegas.

VALLEY RIVER.—L. E. Shull, Secy. and Gen Mgr., Mill Creek, W. Va., writes that this company will build a railroad from Mill Creek to Clover Lick, W. Va., 43 miles. Surveys have been made and construction is to begin soon. W. A. Dromgold is Pres., York, Pa.; John Alden is Ch. Engr., Elkins, W. Va.; J. G. Hoffman, Jr., Vice-Pres. Headquarters, Mill Creek, W. Va. Noted on Nov. 14.

WACO, HAMILTON & BROWNWOOD.—Stephen Turner, Ch. Engr., Waco, Tex., advises us that preliminary surveys are now being made. This railroad will be 131½ miles long connecting Waco and Brownwood, via Hamilton. There will be about 50 miles of light work, 31 miles of heavy and 50 miles of medium construction. Date for letting contracts has not been settled upon. Capital has not been obtained. James B. Baker, Pres., Waco. Previously noted.

ELECTRIC RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

WATERBURY, CONN.—The Waterbury & Millidale Tramway Co. is now securing capital. When financial arrangements are made contracts will be let for building the proposed line. It will connect Waterbury, Southington and Meriden and will be about eight miles long. Charles H. Clark is Pres., Millidale; John H. Cassidy, Secy., Waterbury; Edwin S. Todd, Millidale, Treas. Sanderson & Porter, 52 William St., New York, are Engrs. Noted on Oct. 17.

JOHNSTOWN, PA.—The Johnstown Electric Railway Co., of Johnstown, has been incorporated with a capital stock of $50,000 by John B. Morgret, E. V. Remington, Chas. M. Moses and others, of Johnstown.

WEST CHESTER, PA.—The West Chester & Wilmington Electric Ry. Co. has applied for a charter to build and operate an electric railway from West Chester to Wilmington, Del., 17 miles. Right-of-way has been secured in portions of Chester and Delaware Counties. The necessary capital has been paid in to the treasury, it is reported. Capital stock, $54,000. The directors are: Thomas E. O'Connell, Pres., West Chester, Pa.; Casper P. Faucett, Treas., Westtown, Pa.; James A. Kirkpatrick, Birmingham, Pa., Charles Gleason, Brandywine Summit, Pa.; Wills Passmore, Brandywine, Del.; F. Harry Day, M. D., Talleyville, Del.; M. A. O'Connell, West Chester, Pa.

BROWNSVILLE, PA.—The Brownsville, Masontown & Smithfield St. Ry. Co. has been granted a franchise for the operation of its interurban line in Port Marion, Smithfield and Masontown, Fayette County; Rices Landing, Carmichaels and East Waynesburg, Greene County; Beallsville, Bentleyville and Zollarsville, Washington County. As previously noted the Council of Carmichaels has granted a franchise to this company and by the terms of the ordinance, work on the road is to be begun within six months and completed within 18 months. The course of the road is not yet decided upon. Surveys, it is said, will be run from Masontown to Carmichaels, then by way of Jefferson to Waynesburg; also from Carmichaels through Clarksville and Zollarsville, thence via Ellsworth to the Monongahela River. It is the intention of the company eventually to reach Pittsburg. J. W. Sheldon is Pres., McKeesport, Pa.

In August we were officially informed that the Brownsville, Carmichaels & Waynesburg Ry Co. has awarded a contract to the MASONTOWN CONSTRUCTION CO., of which E. S. Hackett is Pres.; W. J. Sheldon, Vice-Pres. and Gen. Mgr.; C. A. Smith, Secy., Masontown. Mr. Sheldon is Pres. of the B., C. & W. Co., McKeesport, Pa. Franchises have been obtained. The line will be 15 miles long. Survey is under way.

ATLANTA, GA.—M. Mason, Vice-Pres. and Gen. Mgr., of the Atlanta & Carolina Ry Co., Atlanta, advises us that contract for constructing this railway has been awarded to COOK & LOURIE, Montgomery, Ala. It will extend from Atlanta to Augusta, Ga., via Monroe, Athens and Washington, 170 miles. Noted on Nov. 7. James W. English, Fourth National Bank Bldg., Atlanta, is Pres. Surveys are made, right-of-way partly obtained and capital secured.

BIRMINGHAM, ALA.—The Birmingham & Gulf Ry. & Navigation Co. has acquired the Tuscaloosa Belt Ry., it is stated, and will electrify it and extend it to Gadsden, via Birmingham, a distance of 20 miles. The Belt Ry. now operates eleven miles of line in the city of Tuscaloosa, Ala. Geo. H. Ross, Tuscaloosa, is Engr. As noted on Nov. 21st the Birmingham & Gulf Ry. & Navigation Co. has recently awarded a contract to the BIRMINGHAM & GULF CONSTRUCTION CO. for the construction of its electric railway, which is to connect Gadsden, Birmingham and Tuscaloosa. The line will be standard-gage, and will be about 170 miles long. The following are the officers of the company: J. M. Dewberry, Brown-Marx Bldg., Birmingham, Acting Pres.; E. F. Enslen, 2737 Highland Ave., Birmingham, Treas. J. A. Vandegrift, Land Title Bldg., Philadelphia, Pa., is Gen. Mgr.

NEW ORLEANS, LA.—J. W. T. Stephens, C. E., 6122 South Liberty St., New Orleans, has prepared plans and the specifications for an electric railway to be operated between Grand Isle and the Fifth District, Algiers (New Orleans). In company with others, it is the purpose of Mr. Stephens to obtain a charter under the laws of the State, and will organize a company for the purpose of building and operating the line. The company is to be capitalized at $1,250,000. Stock has already been subscribed.

BEDFORD, IND.—The City Council has granted to the Grand Central Traction Co. a 50-year franchise for the construction of an interurban railway through that city and also authority to operate an electric light plant. Noted on Oct. 24.

INDIANAPOLIS, IND.—It is reported that a plan has been adopted whereby the work on the Newcastle division of the Indianapolis, Newcastle & Toledo Electric Ry. will be resumed immediately and rushed to a speedy completion. W. E. Stevenson, Eli Marvin, and Eugene Bundy are three of the original projectors and owners of the road. It is understood that the plan contemplates an early dissolution of the receivership in which the road has been placed, and the completion of the road under the financial supervision of a trustee. The road was within 10 or 15% of completion when operations were halted. The grading was done in its entirety and practically all the overhead work was completed. The big powerhouse of the company, erected at Newcastle, Ind., at a cost of $300,000, was all ready for the placing of its electrical machinery. More than half the steel rails had been laid and part of the track had been ballasted. D. M. Parry is Pres. and W. E. Stevenson, Secy., 407 Traction Terminal Bldg., Indianapolis.

MARION, IND.—Surveys are being made for the Marion & Logansport Traction Co.'s line and bids on grading will be received. The line will be 39½ miles long and will connect Marion and Logansport, Ind., by way of Sweetser, Mier, Amboy, North Grove, McGrawsville, Lover, Bunker Hill, Onward, and Anoka. James R. Poole is Pres., and John O. Willson, Secy.

QUINCY, ILL.—F. W. Knollinberg, Secy. of the St. Louis, Terre Haute & Quincy Traction Co., Quincy, informs us that this company is now securing its right-of-way. The line is surveyed. It will be 250 miles long and will connect Quincy, Ill., and Terre Haute, Ind. Capital has not yet been obtained. Edward Yates is Pres., Pittsfield, Ill.; George H. Lawrence is Ch. Engr., Quincy.

CARLISLE, IOWA.—This place has voted in favor of granting an electric railway franchise for 25 years to the McKittrick Brick & Tile Co., for the construction of an electric line from its bed of clay and shale to the operating factory.

LAS VEGAS, N. MEX.—Final survey is reported to be under way for the proposed line to Mora and Taos. In October Wm. A. Buddecke, Pres. of the Las Vegas Ry. & Power Co., East Las Vegas, wrote us that construction of a line to Mora was contemplated, but that no definite steps had yet been taken other than to secure part of the right-of-way.

PORTLAND, ORE.—The Oregon Elec. Ry. Co. is now completing its line between Portland and Salem, 45 miles. It will then be extended to Albany and Eugene, Ore., 123 miles. A branch line will be constructed to Forest Grove and Hillsboro, 21 miles. Estimated total cost of completed system is $5,000,000. W. S. BARSTOW & CO., 50 Pine St., New York, and the Failing Bldg., Portland, are the engineers and builders.

VENTURA, CAL.—Julian P. Jones, Mgr. of the Ventura Terminal Ry. Co., 500 Citizens' National Bank Bldg., Los Angeles, Cal., advises us that this company proposes to build an electric railway to the cement rock quarry, a distance of 25 miles; also a 5-mile branch line to Nordhoff and the Ojai Valley. Preliminary surveys are made. Right-of-way is practically secured and capital is partly obtained. Contracts will be let when financial conditions are improved. This railway line is to be built in connection with a cement factory, to be built at Tidewater, which will have a daily capacity of 2,000 bbls. Both enterprises will be owned and financed by the Ventura Industrial & Securities Co. Bonds will be sold. Wm. A. Ramsey is Ch. Engr., I. W. Hellman Bldg., Los Angeles. Noted on Oct. 10.

LONG BEACH, CAL.—Frank A. Crowe, of Long Beach, has been granted two franchises to build electric railway lines in Long Beach.

LOS ANGELES, CAL.—Construction work on the Los Angeles & Owens Valley Railroad Co.'s line, which is to connect Los Angeles, Randsburg, Independence and Bishop, will begin about April 1, 1908. The surveys for the line, which will be 325 miles long, have not yet been completed. The road will be operated by electricity. The officers of the company are as follows: S. P. Jewett, Pres.; Geo. Chaffey, Vice-Pres.; A. M. Chaffey, Secy. and Treas., all with offices at 411 South Main St., Los Angeles. In addition, light and power will be furnished to mines and towns along the route.

SAN FRANCISCO, CAL.—The Public Utilities Committee of the Board of Supervisors has recommended the passage of a supplemental 25-year franchise to the Parkside Transit Co. for the operation of its line in 20th Ave., provided the company surrenders all rights granted in a former franchise for the operation of its line in 19th Ave., according to the San Francisco "Chronicle." The company applied for the supplemental franchise on 20th Ave. on account of the light grade on that street as compared with 19th Ave. The city reserves the right to purchase the line within the last ten years of the life of the franchise. Owing to provisions of the city charter which require that the franchise be published, advertised for sale, bids acted on, and the text of the document again published for a period of 90 days, the franchise cannot come up before the Board of Supervisors for final action before the middle of April. This will delay actual construction of this part of the road until then.

REDLANDS, CAL.—W. D. Larrabee, Ch. Engr. of the Redlands & Yucaipe Elec. Ry. Co., Redlands, advises us that surveys are made and right-of-way obtained for this line, which will extend from Redlands through the Yucaipe Valley to Oak Glen, a distance of 24 miles. C. S. Chestnut is Pres., Redlands. Financial arrangements are at present held up.

RENO, NEV.—The Ubeliebe Copper Mines Co. may build an electric railway from a point on the Bullfrog-Goldfield R. R. Co. to its mines, a distance of about 50 miles. H. G. Merry is Vice-Pres., Reno, Nev.

TILSONBURG, ONT.—The Erie, London & Tilsonburg Elec. Ry. Co., which was authorized last spring to build an electric railway from Port Burrell, Ont., northwest to London, 40 miles, with a branch east of Tilsonburg, 15 miles, has applied for an extension of time in which to begin the construction of the line. E. C. Jackson, Tilsonburg, is interested.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

LITTLEFIELD, ME.—The Boston "Transcript" states that the Libbey & Dingley Co., of Lewiston, Me., have signed a 20-yr. lease of the water power at Littlefield, on the Little Androscoggin River, near Auburn, known as the Damren & Leavitt power. The company proposes to use this power as a quick supply when special occasion demands. A concrete dam equal to the Deer Rips dam will be built and six wheels capable of generating 2,000 HP. will be installed. In addition to this, a generator is to be put in at the power station site above Barker Mill dam; thus about 500 HP. additional will be utilized on the Little Androscoggin River for the company. Work on the Littlefield power will be begun in June, 1908, and the dam will be completed during the summer.

BAY SHORE, N. Y.—The Bay Shore Gas & Electric Light Co. is planning improvements and extensions to its plant, it is stated, and will establish a 24-hour service for light and power after Feb. 1. The company will expend about $35,000 for improvements, which will include a 100,000-ft. storage holder, a 200-HP. steam engine, a 150-HP. boiler, and a 110-KW. generator and extension of mains, etc.

PHILADELPHIA, PA.—Only one bid was received by the Department of Public Safety, which was opened Nov. 15, for lighting the streets by electricity for next year, which was submitted by the Philadelphia Electric Co., Tenth and Chestnut Sts., which holds the contract for the present year. The prices submitted are the same as this year, but the increase in number of lamps will make the cost of electric lighting next year $1,200,000, as compared with $1,114,224 this year. The price ranges from 25 to 29 cts. per lamp per night.

READING, PA.—The Nolde & Horst Co. has placed a contract with the BROWN ENGINEERING CO. for the electric light and power equipment for its new knitting mill. The machinery will be operated by individual motors.

HUNTINGTON, PA.—Contracts have been awarded by the Raystown Power Co. to the AYRENS CONSTRUCTION CO., of Lewistown, Pa., for construction of Dam No. 1 to be built on the Raystown branch of the Juniata River. This dam will be built about nine miles from the confluence of the Raystown branch with Juniata. The plans call for a dam 40 ft. in height, with a storage capacity of 7½ sq. miles, and is estimated to furnish about 400 HP. The cost of the dam is estimated at about $100,000. The company will be provided with an auxiliary steam plant, which will be located somewhere in the coal fields contiguous to its water power plants, and will have a capacity of 10,000 HP. The Juniata Electric Co., organized by William P. Woods, of Lewistown, and Wallace Wilson, of Huntington, will be the distributing medium for the electricity generated by the Raystown Power Co.

BALTIMORE, MD.—See under Buildings.

WASHINGTON, D. C.—R. C. Holyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, has recommended extensive improvements to the electrical equipment of the various navy yards. The improvements include construction of additional power plants, conduits, lighting systems and electric elevators.

*WASHINGTON, D. C.—Bids are asked until noon, Jan. 15, by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, Washington, for equipment for lighting, heating and power plant for the U. S. Capitol and Congressional Buildings.

SULPHUR SPRINGS, N. C.—Plans are being prepared by Smith & Powers for a combined electric light plant and waterworks system, to cost about $25,000.

WAYNESVILLE, N. C.—The Waynesville Electric Power Co. is contemplating developing other water powers and installing further equipment in its plant. George E. Ladshaw, of Spartansburg, S. C., is Engr.

WALKERSVILLE, GA.—Plans are being considered for organization of stock company to furnish city with lights. A committee has been appointed, composed of Dr. J. D. Nicodemus, Cephas M. Thomas, Newton A. Fulton and others.

AMERICUS, GA.—Plans have been completed for the proposed power plant of the Americus Railway & Light Co., and contracts will soon be awarded for equipment of the plant. It is expected to have the plant completed and ready for operation by next May. The cost of the plant is estimated at $200,000.

JACKSONVILLE, FLA.—The A. A. Kind Electric Co. is planning to make extensions to its system next summer, which will include the installation of an ice plant, waterworks and gas plant. A. A. Kind is Mgr.

NEW BREMEN, OHIO.—The village citizens have voted to issue $20,000 of bonds for construction of an electric lighting system. A. W. Fischbaugh, of Celina, Ohio, is Engr.; A. M. Steinebrey is Village Clerk.

SOUTH BEND, IND.—The South Bend Fuel & Gas Co. has awarded a contract to H. G. CHRISTMAN & CO. for the construction of a gas holder on Pennsylvania Ave.

GRAND RAPIDS, MICH.—According to press reports a dam is to be constructed by the Grand Rapids-Muskegon Power Co. This is to be at Ox Bow on the Muskegon River, eight miles north of the Croton dam. The river is very swift at this point and J. B. Foote, Engr., announces that it will afford 1,000 HP. more than the Croton dam. The dam will have a 54-ft. head, which is 13 ft. more than the Croton dam. The horse-power developed will be at least 15,000 and its purpose will be to connect the power plant of this dam with the general system for furnishing power to Big Rapids, Muskegon, Grand Rapids and other places reached by the company. As soon as the soundings are completed the preparations for the actual construction work will be begun. A. J. Bemis is Mgr., Grand Rapids.

CHICAGO, ILL.—Raeder & Wood, Engrs., 204 Dearborn St., have made plans for a power-house for the Chicago House Wrecking Co., 35th and Iron Sts. It will be one story high, 60 × 300 ft., of brick and steel construction, with composition roof, structural iron, cement floors, electric wiring, lavatories and water closets. Cost, $30,000. Bids will be received by engineers.

FREMONT, NEB.—The bids for the construction of the water-works and electric light station have been rejected. The cost of the work is estimated at $... Contracts for engines and dynamos have been awarded. C. A. Chapman, 204 ... Chicago, Ill., is Consult. Engr. ... born St. ... mond is Secy. Bd. Public Wo... Hamk

DENVER, COLO.—The contract for the electrical equipment for the ... auditorium building has been awarded to ... NORTHWESTERN ELECTRIC EQUIPMENT CO., 135 East Fifth St., St. Paul, Minn. The contract amounts to about $40,000 ... includes a complete electrical system and ... operating plant. A. J. Perky, Supt. of the ... Northwestern Electric Equipment Co., has charge of the installation of the plant.

COLTON, WASH.—A franchise for lighting, heating and power has been granted by this city to the Idaho-Washington Light & Power Co., of Moscow. ... lighted by Electric

ELK, WASH.—According to the "Chronicle" a power plant will be built next summer on the south fork of Spokane water River near the mouth of Clear Creek and near the Elk and Orogrande districts. Plans for the plant are drawn and call for expenditure of $10,000. Power site has been located by J. ... Schlosser, of Chicago, Pres. of the Umatilla Mining Co., which owns the Umatilla ... near Orogrande. He, with associates, will form a separate company to develop water power and furnish electric power for the Umatilla mine and various districts ... Waters of Ten Mile Creek will be piped.

WHITTIER, CAL.—The Hadley Land & Water Co. has leased the Lagu... Ranch of 3,500 acres, it is stated, and will install three power plants, develop water for the entire tract, drill artesian wells and put in a 5,000,000-gallon reservoir. The company will spend about $20,000 for the power plants and pipe line and $10,000 additional in drilling wells.

SAN FRANCISCO, CAL.—The contract for motors, rheostats, chain drives, air compressors, circuit breakers, conduits, wires, etc., for the San Francisco post-office has been awarded to the GENERAL ELECTRIC CO., Union Trust Bldg., San Francisco, at $4,875.

The City Electric Co. has awarded contract to the WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., Pittsburg, for a 10,000-HP. turbo generator. This machine will cost $300,000.

PASADENA, CAL.—The City Council has awarded a contract to the FORT WAYNE ELECTRIC CONSTRUCTION WORKS for electrical transformers for the municipal electric light plant. S. J. Van Orman is City Engr.

PHOENIX, ARIZ.—The Secretary of the Interior has awarded a contract to the JOHN A. ROEBLING'S SONS CO., South Broad and Canal Sts., Trenton, N. J., for furnishing approximately 685,000 lbs. of copper wire required for the transmission line and other purposes in connection with the Salt River irrigation project, Ariz.

RENO, NEV.—Articles of incorporation have been filed by the Lower Truckee Electric Co. For several months past this company has been at work in the vicinity of Logarmarsino's ranch, a few miles east of this city, and is planning to construct a dam across the Truckee River and convert the waters of the Truckee at that point into a plant for producing electric power. It is planned to supply the mining camps of Fair view, Wonder and Olinghouse with electricity for power and lights, and probably to run a power line to Reno and the Carson Valley. In the vicinity of the Logarmarsino ranch there is a fall to the Truckee River in a very short distance. Henry W. Esden, of this city, has been in charge of the work done by the new company. A party of surveyors and workmen have made surveys and plans for the construction of the plant and power lines and the incorporation of the Lower Truckee Electric Co. The capital stock of the company is placed at $500,000. The incorporators are T. W. Haines, of Oakland, Cal.; W. H. Hall, of Gridley, Cal., and Henry W. Esden, of this city.

MULDOON, IDAHO.—Ground has been broken at Muldoon for a plant which is designed to supply power and light for the claims and the mills constituting the Tustin properties at Muldoon. The plant will be 60-cycle, 3-phase, and will have a capacity of 250 HP. The power-house will be of cement and fireproof throughout, and the plant will cost about $16,000. For the present the plant will only supply power for the Muldoon and the Mountain Belle groups. C. D. Stephens, Monadnock Bldg., Chicago, is Consult. Engr.

OROFINO, IDAHO.—We are officially advised that the Mutual Light & Power Co. will construct a plant to light 600 incandescent lamps of 16 c. p. The system will be operated by water. F. B. Lynch is Mgr. Plans have not been completed.

TORONTO, ONT.—C. H. Rust, City Engr., writes us that the proposed by-law which is to be submitted to the ratepayers the first of January calls for an expenditure of $2,750,000 to construct a distribution plant in the city for the purposes of furnishing electric energy to the citizens, the city having entered into an interim arrangement with the Ontario Government for the supply of between 1,200 and 1,500 HP. at a rate of about $... per HP., the Government having made arrangements with some of the power companies at Niagara Falls for the purchase of electric energy to be distributed over the western part of Ontario. This price of $18.10 covers the power delivered at a transformer house in the city of Toronto.

HAMILTON, ONT.—The Board of Works has decided to submit a by-law in January for $225,000 for a municipal street lighting plant. For this amount the city will be able to install an underground system in the center of the city, and bury all wires. S. H. Kent is City Clerk.

BRIDGES.

*HARTFORD, CONN.—Bids are asked until noon, Dec. 16, by Morgan G. Bulkely, Pres. Connecticut River Bridge and Highway District, for the sale of the superstructure of the present temporary highway bridge across the Connecticut River here. The bridge is built of steel. 30 ft. center to center of trusses; wooden floor; composed of nine spans; three spans of 116 ft. each; two spans of 146 ft. each; three spans of 106 ft. each, and one span of 80 ft.; and designed to carry an 80,000-lb. trolley car. The floor beams are 30 ft. 80-lb. I's.

ETNA (Allegheny post-office) PA.—Bids are asked until 5 p. m., Dec. 9, by A. R. Dunbar, Boro. Clk., for the erection of two bridge, one a steel girder bridge, with the necessary abutments, over Pine Creek on Grant Ave., and one over Little Pine Creek on Dewey St. Bids must be submitted on three different plans: a steel girder bridge with necessary abutments; reinforced concrete arch bridge; and a masonry ribbed arch bridge.

PITTSBURG, PA.—Plans are being prepared for the construction of several bridges in the Sixteenth Ward, at Ridge St. and Brereton Ave., to connect over the hollow with Ella St. Estimated cost, $200,000.

VICKSBURG, MISS.—The Board of Supervisors of Warren County has rejected all bids for the erection of the Ivanhow bridge, and will advertise for new bids in April.

ALGIERS (New Orleans post-office), LA.—FRANK BLANC, New Iberia, has been awarded the contract for the construction of a viaduct over the Southern Pacific Company's tracks here, at about $99,000.

SOUTH BEND, IND.—The following bids were opened on Nov. 22 by the Board County Commissioners for the construction of a concrete steel girder bridge at La Salle Ave.: C. L. Copp, South Bend, $13,234; Marsh Co., Des Moines, $16,764; Falkenue Co., Chicago, $14,218; Elkhart Construction Co., $17,500.

INDIANAPOLIS, IND.—The Board of County Commissioners contemplate building a bridge across the Pogus River at Dorman St.

HAZLETON, IND.—Plans are being prepared for the construction of a bridge across White River, near here, for the Chicago, Indiana & Eastern Ry. Co. J. C. Bland is Engr. Bridges, Chicago.

JOLIET, ILL.—Plans are being prepared for the construction of a bridge across the canal to replace the one which was destroyed. Estimated cost, $10,000.

MENOMONIE, WIS.—Bids are asked until December 6 by the city council, for the construction of a bridge over the Red Cedar River. F. W. Rowe is City Clk.

FORT SNELLING, MINN.—Plans have been prepared for the construction of the Fort Snelling bridge by the officials of the War Department. Estimated cost, $250,000.

ST. LOUIS, MO.—The St. Louis Electric Terminal Co. (Illinois Traction Co.), William B. McKinley, Champaign, Ill., Pres., has submitted plans to the Board of Public Improvements for approval, preparatory to beginning the construction of the proposed McKinley bridge across the Mississippi River. The structure is to be 2,365 ft. long from shore to shore, with three central spans, 521, 523, and 521 ft. in length, respectively, and two smaller spans, each 300 ft. long, and height of bridge above low water, 75 ft. The train part will carry double tracks for electric car service. Outside of the tramway, on either side of the steel superstructure, will be constructed a wagonway and sidewalk, each wagonway to be 14 ft. wide and each sidewalk 7 ft. wide. The St. Louis Electric Bridge Co., 410 Bank of Commerce Bldg., St. Louis, will own and operate the structure. Estimated cost, $2,500,000. R. D. Smith is Supt., St. Louis Electric Bridge Co.; Ralph Modjeska, Monadnock Bldg., Chicago, Ill., is Engr. in Charge.

KANSAS CITY, MO.—A reinforced concrete bridge will be constructed over Gooseneck Creek at Independence Ave., in the spring. Estimated cost, about $12,000. E. A. Harper is City Engr.

BEAUMONT, TEX.—Plans are being prepared for the construction of a bridge over Pine Island bayou by Jefferson and Hardin Counties. Estimated cost, $15,000. J. A. Harrison is interested.

SEATTLE, WASH.—The N. P. and Columbia & Puget Sound Ry. companies have decided to prepare plans at once for two 30-ft. bridges with an 8-ft. sidewalk on Holgate and Stacey Sts., and so constructed that its width can be doubled when the traffic demands it. Estimated cost, $75,000 each.

CURLEW, WASH.—The County Commissioners have awarded the contract for the construction of a steel bridge over the Kettle River to WM. OLIVER, of Spokane, at $7,975.

PORTLAND, ORE.—The following bids were received on Nov. 29, by A. L. Barbour, City Audr., for the construction of a reinforced concrete bridge across Sullivan's Gulch at East 28th St.: Robert Wakefield, Portland, $73,173; International Construction Co., 737 New York Block, Seattle, $74,530; Indianapolis Machine Co., Indianapolis, $74,985. Douglas W. Taylor is City Engr.

SACRAMENTO, CAL.—The following bids were received Nov. 16, by the Board of Supervisors, for the repair and correction of (a) the American River trestles leading to and from the bridge, and (b) for repairs to the American River bridge: (a) The Burrell Bridge Co., Central Bank Bldg., Oakland, $5,629; Darby Laydon, $5,700; Jenkins & Wells, $5,388; (b) Burrell Bridge Co., $13,-515; Darby Laydon, $17,000; Book Bros., $16,430; Jenkins & Wells, $13,940; McDougall & Kennedy, $13,975.

QUINCY, CAL.—Bids will soon be asked by the County Clerk, Plumas County, for the erection of several steel bridges.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—It is stated that the proposed contagious disease hospital, for which L. G. Destremps, Bennett Block, Fall River, is preparing plans, will cost about $125,000.

BOSTON, MASS.—The contract for the building of the proposed addition to the Mechanics Arts high school has been awarded to WILLIAM J. CRANE, 7 Water St., Boston, whose bid of $305,431 has been approved by the Mayor. Mr. Crane has been awarded the contract for the remodeling of the old Mechanics Arts high school building also, for $40,760. The contract for the heating and ventilating of the new building was awarded to ALBERT B. FRANKLIN, 62 High St., whose bid was $53,400.

NEW YORK, N. Y.—Mulliken & Moeller, Archs, 7 West 38th St., have awarded the carpenter contract to STEPHEN BALL, 3682 Broadway, for a 12-story brick and stone office building, 99 × 105 ft., at Park Ave. and 41st St., for the One Hundred and Three Park Avenue Co. Estimated cost, $650,000.

NEW YORK, N. Y.—We are officially advised that Alfred G. Vanderbilt, Plaza Hotel, will erect a 21-story brick and stone building at Park Ave., from 33d to 34th Sts., to be 197.6 × 79.9 ft. The building will have terra-cotta trimmings. Bids for construction probably will be received the first part of January. Estimated cost, $1,000,000. A power plant will be installed and the building fitted according to the requirements of the tenants. Warren & Wetmore, 3 East 33d St., are Archs.

ROCHESTER, N. Y.—J. Foster Warner, Arch., Granite Bldg., has plans for No. 26 Public School for the city. Brick will be used in construction. Cost, $250,000.

UTICA, N. Y.—The Special Committee of the State Fair Commission, it is reported, has adopted the plans of Green & Wicks, 110 Franklin St., Buffalo, for developing the fair grounds, which include the erection of the manufacturers' and liberal arts building, provided for in the accepted plans. The cost of the building alone is reported at $200,000.

BINGHAMTON, N. Y.—Franklin B. Ware, State Arch., is preparing plans for a 2-story nurses' home, at Binghamton, N. Y., for the State. Brick and stone will be used for construction, with gas and electric fixtures, water closets, lavatories and bath tubs. Cost, $100,000.

MIDDLETOWN, N. Y.—Plans have been prepared by Franklin B. Ware, State Arch., Albany, for erection of a brick and stone nurses' home to cost $100,000.

PITTSBURG, PA.—We are officially advised that P. W. FINN, Smithfield and Water Sts., Pittsburg, has secured contract for erecting a limestone Soldiers' Memorial Hall for the Allegheny County Commissioners, bids for which were received on Nov. 25. The Commissioners reserve the right to change the material of construction within 15 days. Following are the bids received for (a) sandstone, (b) buff limestone, (c) granite and terra cotta: P. W. FINN (awarded contract), (a) $753,134, (b) $733,000, (c) $873,-000; Wm. Miller & Sons, (a) $874,744, (b) $856,974, (c) $968,574; A. & S. Wilson Co., (a) $857,643, (b) $822,193, (c) $943,912; H. Shenk & Co., (a) $874,971, (b) $843,971, (c) $974,371; Wm. Kerr's Sons, (a) $918,391, (b) $913,808, (c) $1,052,133; C. H. Kerr, (a) $939,525, (b) $929,525, (c) $1,054,595; J. C. Robinson & Son, (a) $829,817, (b) $794,717, (c) $924,817; J. E. & A. L. Pennock, (a) $868,866, (b) $798,863, (c) $928,866; J. Gill & Sons, (a) $839,500, (b) $829,800, (c) $944,-000; Norcross Bros., (a) $1,020,000, (b) $929,-000, (c) $1,037,000; A. B. Stannard, St. James Bldg., New York, N. Y., (a) $926,000, (b) $906,000, (c) $1,034,000. Palmer & Hornbostel, 63 William St., New York, are Archs.

BALTIMORE, MD.—The Forest Glen Land Co., B. Wood Burch, Pres., Equitable Bldg., has purchased 140 acres of land, in northwestern suburbs and will erect 1,800 dwellings, two and three stories high. They will be constructed of concrete blocks and erected in twin style. J. Edward Laferty, Arch., 11 Pleasant St., has been engaged to prepare plans for the dwellings. Avenues of macadam and cement sidewalks are to be laid. The houses are to be supplied with steam heat and electricity from a central power plant. The houses will be of six and eight rooms each and will be furnished with porcelain bath tubs and lavatories. A system of underground drainage will be constructed. Entire improvements to cost about $5,000,000.

WASHINGTON, D. C.—We are officially advised that the lowest bid received on November 27 by Elliott Woods, Supt., U. S. Capitol Bldg. and Grounds, Washington, for steel framing for the roof of the Senate Office Building, was submitted by the Phoenix Iron Co., 410 Walnut St., Philadelphia, Pa., at $24,339.

WASHINGTON, D. C.—Bids are asked until 3 p. m., Jan. 7, by the Bureau of Yards and Docks, Navy Dept., Washington, for construction, including plumbing, heating apparatus, electric wiring and conduits of an extension to and for remodeling the hygienic laboratory of the U. S. Marine Hospital Service at Washington.

NORFOLK, VA.—We are officially advised that L. E. Jallade, 1170 Broadway, Arch., New York, let general contract to J. HENRY MILLER, Edmondson Ave. and Calverton Road, Baltimore, Md., for constructing the 6-story Naval Y. M. C. A. building, at Norfolk, to cost $250,000.

CHATTANOOGA, TENN.—Bids are asked until Dec. 10 for erection of proposed City Hall, which will have three stories with basement and will be classic in design, fireproof. The exterior of building, including all cornices and ornamental work, will be faced with stone, backed up with brick, terra-cotta partition blocks or reinforced concrete; framing for floors, ceiling and roof of steel; roof covered with tile or slate and metal; corridors and toilet-room on third floor covered with marble, and will have marble base on walls on either side of corridors; steam heat; electricity and gas; plumbing; in central portion of building four columns two stories high; over doors of main entrance three balconies supported by ornamental brackets and enclosed by stone balustrades. Cost, $195,000. Bids will be opened for the steam heating, plumbing and electric wiring also. R. H. Hunt, News Bldg., Chattanooga, is Arch.; T. J. Gillespie is City Treas.; H. F. Van Dusen is Chn. Bd. Public Works.

NASHVILLE, TENN.—The Jesuit Fathers will build school to be known as Campton College on a 56-acre site, expending between $150,000 and $200,000. It is stated that plans for buildings have been drawn and approved by Monseigneur O'Connor of New Orleans, La., Provincial of Southern Division Province, S. J., and that construction will begin soon.

MEMPHIS, TENN.—The Memphis Railroad Terminal Co. has submitted plans to City Council providing for the adoption of an ordinance insuring the early beginning of construction on the proposed union passenger station and the accompanying terminal facilities. Real estate already acquired has cost about $800,000, and the station proper, with train shed and improvements, is estimated to cost $3,000,000, about $2,000,000 more to be the cost of terminal trackage and other construction work. It has been stated that final plans will be prepared and construction supervised by Walter Harrison, Birmingham, Ala. The main station probably will be 200 ft. square, with 50-ft. platform all around; express and baggage rooms each 50 × 250 ft.; train yard to have space for 450 coaches, etc. John H. Watkins is Pres. of Memphis Railroad Terminal Co.

CINCINNATI, OHIO.—Garber & Woodward, Naeve Bldg., Cincinnati, have let carpenter and mason contract to H. HARIG & CO., Harrison Bldg., and plumbing to WILLIAM ATTLESSEY, 819 Vine St., for a 2½-story press brick public school building at Westwood, for the Board of Education, William Grautman, Clk. Cost, $200,000.

SPRINGFIELD, OHIO.—The citizens have voted to issue $200,000 of bonds for erection of a school. W. H. Holmes is Clerk Bd. of Education.

FORT WAYNE, IND.—Bids are asked by Weatherhogg & Crocker, Archs., Hamilton Bank Bldg., until Dec. 27, for erecting a 9-story hotel, 120 × 150 ft., for the Fort Wayne Hotel Co. The building will be constructed of hard brick, Bedford stone, terra cotta and reinforced concrete. Estimated cost, including equipment, $300,000.

MARION, IND.—Bids were received as follows Nov. 29 at the office of the Supervising Arch. of the Treasury, Washington, D. C., for the construction of a post-office building at Marion, Ind.: The Warren Construction Co., Monadnock Block, Chicago, $84,000; 12 months; Ed. Henry, Tipton, Ind., $83,000; R. B. Watson Co., Chicago $89,400, 18 months; Charles W. Gindele, 3333 La Salle St., Chicago, $79,250; James M. Bishop Construction Co., Crawfordsville, Ind., $105,850; Morse & Danner, Kokomo, Ind., $77,628; John G. Schumaker & Co., 820 East St. Clair St., Indianapolis, Ind., $94,500; F. M. Roode & Co., Tipton, Ind., $80,921; Bedford Stone & Construction Co. Traction Terminal Bldg. Indianapolis, $91,494; Charles Hoertz & Son, Grand Rapids, Mich., $83,287; Selden Breck Construction Co., St. Louis, $93,000.

CHICAGO, ILL.—Bids are asked until noon, Dec. 13, by the Board of Education, 143 Dearborn St., for construction of an addition to the Jackson School. It will be built of brick and stone, 145 × 194 ft.

General contract has been awarded to ANGUS BROS. & CO., 188 East Madison St., for erecting 200 cottages, each one story, 20 × 32 ft., of frame, at South Chicago. It is proposed to erect 100 this winter, and the remainder in the spring. $340,000.

Huehl & Schmid, Archs., 165 Randolph St., have completed plans for a mercantile building to be built at 286 Fifth Ave., for Washington Porter 77 Jackson Boulevard. The building will be ten stories high 60 × 100 ft., brick, steel and concrete. Cost $150,000. Squiers, Aldrich & Co., 297 Franklin St., are the lessees. Bids will be received by the architects.

NORTH CHICAGO, ILL.—The following bids were received Dec. 2 at the Bureau of Navigation, Navy Dept., Washington, D. C., for the construction of buildings at the Naval Training Station, North Chicago, Ill.: J. E. Hale, Chicago, officers' quarters, $89,970; J. Corse, Racine Wis., commandant's quarters, $47,106; officers' quarters, $77,000; guard house, $18,635. C. A. Barquist, Chicago, commandants' quarters, $51,517; officers' quarters $94,821; guard house, $7,075.

MADISON, WIS.—Bids are asked until noon, Dec. 18, by the Wisconsin Capitol Commission for wrecking the east wing of the present capitol and for building a concrete tunnel between the heating and power plant and the capitol now building. Lew F. Porter is Secy. Comn.

CEDAR RAPIDS, IOWA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to W. J. McALPINE, Dixon, Ill., contract for the construction of a post-office building at Cedar Rapids, Iowa, at $134,000; Jan. 15, 1910.

DES MOINES, IOWA.—Bids are asked until 3 p. m., Dec. 23, by Capt. John J. Boniface, Constr. Q. M., for constructing, plumbing, steam heating and electric wiring one double set captains' quarters and two double sets lieutenants' quarters, and constructing one quartermaster's storehouse at Fort Des Moines.

YORK, NEB.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury, Dept., Washington, D. C., until 3 p. m., Jan. 14, for construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at York.

INDEPENDENCE, MO.—The Jackson County Court has awarded contract to TAYLOR & WINN CONSTRUCTION CO., Massachusetts Bldg., Kansas City, Mo., at $148,208, for erection of proposed county home, to consist of two buildings. The main structure is to be three stories high, 309 × 232 ft. with electricity, steam heat, native limestone, granitoid floors, concrete roof, covered with tar and gravel. The auditorium will be 50 × 110 ft., with seating capacity of about 500. Work will begin about Dec. 15. The interior work is to be done under separate contract, which will make the total cost $250,000, the amount available. Plans have been prepared by Frank P. Rea, Dwight Bldg., Kansas City, Mo.

EXCELSIOR SPRINGS, MO.—Plans have been prepared by Louis Curtiss, 1112 McGee St., Kansas City, Mo., for a hotel to be four stories high and to cost $225,000.

ST. LOUIS, MO.—Plans are being prepared by V. J. Klutho, Arch., Benoist Bldg., for the erection of a church for the St. Francis de Sales congregation at Gravois and Ohio Aves. Rev. T. G. Holweck is Pastor. Cost, $250,000.

Helmuth & Spiering, 721 Olive St., have prepared plans for a 5-story warehouse for W. W. Candy. Cost, $100,000.

KENWOOD, MO.—A. F. Haeussler, Arch., 510 Pine St., St. Louis, is preparing plans for a 3-story club building, 140 × 280 ft., to contain swimming pool, bowling alleys, billiard rooms and gymnasium, at Kenwood Springs. Brick, stone, hard plaster, architectural iron and steel will be used in construction. Cost, $150,000.

KANSAS CITY, MO.—The Wells-Fargo Express Co., 910 Main St., has purchased a site with frontage of 200 ft. on which to erect stables and warehouse to cost $150,000. R. A. Wells is Gen. Mgr.

Ely Meyer and M. C. Simon will erect mercantile building from plans by H. R. Wilson, 218 La Salle St., Chicago, Ill. Bids have not been asked. It will have twelve stories, steam heat, gas and electric lighting, three elevators and will cost $345,000.

DENVER, COLO.—We are advised by Joseph W. Walker, 216 Charles Block, Denver, that the Theatrical Mechanical Association intends to construct a National Home to cost about $250,000, under the supervision of Lodge No. 22 of Denver. The engineering features, consisting of ventilation, heating, etc., will receive special attention.

J. K. Mullen, Ninth St. and Pennsylvania Ave., and M. Marceau are reported interested in the erection of a 3-story restaurant building on Glenarm St., to cost about $400,000.

TACOMA, WASH.—Plans for the Tacoma federal building, which will be erected on A St. between Eleventh and Twelfth Sts., have been completed, and work on the specifications will begin immediately. Construction probably will be commenced on the building in the spring. Estimated cost, $900,000. James Knox Taylor, is Superv. Arch., Treasury Dept., Washington, D. C.

Plans for the Y. M. C. A. building have been completed and the committee which will have in charge the erection of the 6-story building on D St. will call for bids on the work soon. The excavation for the structure is about finished and actual building will be started about the first of the year.

SPOKANE, WASH.—Plans have been prepared by H. J. Williams, 428 Sinto Ave., for the erection of a hospital building for the Sacred Heart Hospital Co., to be built at Eighth and Ninth Aves. and McClellan St. Cost, $400,000.

SAN FRANCISCO, CAL.—Plans for the free public market on the city front have been adopted by the State Board of Harbor Commissioners. Specifications and estimates for the buildings will be ready soon and the Commissioners will advertise for bids for construction. Sixty days will be the limit of time given the contractor, so the Commissioners expect that the market will be open to the public early in January. The floors will be of concrete, the walls covered with iron, and the roof of fireproof composition. The market will cover the triangular block bounded by Drumm, Pacific and East Sts. It will have 17 stalls, most of them being 10 × 10 ft., an office and three selling corridors running across the building from East to Drumm Sts.

PASADENA, CAL.—Plans being prepared for enlarging the Throop Polytechnic Institute at Pasadena, will call for an expenditure of about $2,000,000. About 22 acres of land fronting on South Wilson Ave. will be used as site for the new buildings. Walter A. Edwards is Pres.

The Christian Science congregation has had plans prepared by Franklin P. Burnham, Pacific Electric Bldg., Los Angeles, for a church to cost $100,000.

SALT LAKE CITY, UTAH.—Jacob Moritz has purchased property extending 95½ ft. on Second South St., 166 ft. on Plum Alley and 60 ft. on Commercial St. It is intended to tear down the three and 4-story buildings which now occupy the property and to erect there an 8 or 10-story building for office purposes. Building is to cost about $100,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

MARION, MASS.—It has been decided to appropriate $65,000 for the installation of a water system.

JERSEY CITY, N. J.—We are officially advised that the FAGAN IRON WORKS, 14th St., has been awarded the contract by the Board of Street and Water Commissioners for furnishing and delivering water gate boxes and covers and manhole heads and covers, at two cents per lb. George T. Bouton is Clk. Bd.

HANCOCK, MD.—Arthur Giesler, 29 Broadway, New York, N. Y., Engr., has prepared plans for the proposed water-works for Hancock.

ROANOKE, VA.—The Roanoke Gas & Water Co. contemplates laying four miles of 10-in. to 4-in. water mains and constructing a new pumping station in the spring. H. H. Baughman is Supt. of Wks.

DALLAS, GA.—This city has voted $30,000 of bonds for the construction of water-works.

ATLANTA, GA.—The following bids were opened on Nov. 25 by the Board Water Commissioners for the installation of a pump at the Hemphill pumping station: The Wisconsin Engine Co., Corliss, Wis.—One 20-million gallons vertical, triple expansion pump, $139,500. The Bethlehem Steel Co., South Bethelehem, Pa.—Vertical triple 20-million expansion pump, $132,000; centrifugal 20-million, $68,000, and one 25-million centrifugal, $74,000. The Holly Mfg. Co., Lockport, N. Y.—Vertical triple expansion pump, $156,000. The William Todd Company, Youngstown, Ohio—Vertical triple expansion pump for either $157,400 or $165,090. The General Electric Co., Empire Bldg., Atlanta—One centrifugal pump, 20-million gallons, $56,000; one 25-million centrifugal, $61,930. The Camden Iron Works, Ninth and Norris Sts., Philadelphia—One vertical triple expansion pump, $147,000. The Dolin Engineering Co., Philadelphia—One centrifugal pump, 20-million gallons, $39,900; one 25-million gallons centrifugal, $42,500. The Allis-Chalmers Co., Milwaukee—One 20-million centrifugal pump, $43,700; one 25-million centrifugal, $48,200. The Allis-Chalmers Co. —Vertical triple expansion pump for either $134,700 or $149,300.

SPARKS, GA.—The citizens have decided to issue $20,000 bonds for installing a system of water-works and electric lights.

PALMETTO, FLA.—The citizens on Nov. 12 voted to issue $25,000 bonds for water-works improvements. T. D. Pollard is Town Clk.

JACKSONVILLE, FLA.—See under Light and Power Plants.

McCOMB CITY, MISS.—Bids are asked until Dec. 17 for sinking an artesian well at the water plant. J. Dock Harrell is City Clk.

NEWTON, MISS.—The following contracts for the construction of the new water system have been awarded by the City Council: AHRENS & OTT MFG. CO., New Orleans, cast-iron pipe and specials, valves, boxes and hydrants, at $13,305.05; A. M. LOCKETT & CO., New Orleans, pumps, connections and valves, erection of all machinery, except deep well pump, feed water heater and wrought-iron pipe, valves for boiler and pump connections, and asbestos cover, $3,865; P. H. PORTER, Clinton, Ky., foundation for tank and tower, construction of reservoir and pipe line, $7,152; J. F. MERCER, erecting building for plant, $5,339.

LEBANON, TENN.—This city has voted $10,000 of bonds for building a reservoir on Fox Hill to furnish the town with water. Base will be constructed of solid rock and be 8½ ft. higher than present standpipe. The water will be obtained from four artesian wells on Fox Hill, three of which are now completed, and the plant which will furnish 250,000 gallons of water daily will be installed. H. K. Edgerton is Chn. Water Com.

MEMPHIS, TENN.—We are officially advised that no bids were received on Nov. 25 by Capt. William D. Connor, Corps Engrs., U. S. A., for about 190,000 cu. yds. of levee work and 40,000 cu. yds. of drainage ditch in Upper St. Francis Levee District. Bids may be readvertised.

CULLOM, ILL.—KINGDON & KINGDON, Cullom, have been awarded the contract for laying 703 rods of water mains here, at $7,475.

BLOOMINGTON, ILL.—We are officially advised that GEORGE McINTOSH, Bloomington, Ill., was awarded the contract on Nov. 28 by the Board Public Works for the construction of 4,000 ft. 10-in. c.-i. water main. C. F. Fauntz is City Engr.

AURORA, ILL.—Specifications are on file at the office of Engineering News, New York, for furnishing an air compressor, capacity 1,700 cu. ft. and installing the same, at the pumping station. Fully noted last week.

ROCKTON, ILL.—George C. Morgan, 169 East Jackson Boulevard, Chicago, in preparing plans for a water-works system for this city. Frank Graves is Pres. Bd. of W.-Wks.

ATLANTIC, IOWA.—Bids are asked until Dec. 7 by T. E. Nichols, City Clk., for a triplex or power pump to be driven by a steam engine operating under 80 lbs. boiler pressure or by electric motor capable of performing the service from a depth of 26 ft. and against a head of 90 to 100 lbs. with a capacity of 700,000 gals. in 24 hrs.

FAIRFAX, MINN.—J. F. JOHNSON, Gibbon, Minn., has the contract, at $2,375, for constructing a water tank and tower.

BENSON, NEB.—This city contemplates extending the water mains. Estimated cost, $9,000. E. A. Steiger is City Clk.

LINCOLN, NEB.—The Committee on Fire Prevention of the National Board of Fire Underwriters, 135 William St., New York, has recommended that the water supply be supplemented by sinking new wells or developing the present ones; that the proposed new storage reservoir have a capacity of 4,000,000 gals.; that a new 5,000,000-gal. centrifugal pump and three new 4,000,000-gal. pumps, and a 250-HP. boiler, be installed; also, that some 20, 16, 12 and 10-in. mains be laid.

EL DORADO, ARK.—The El Dorado Water-Works Committee contemplates the installation of a water-works system. M. P. Jackson will be engaged to make surveys. Estimated cost, $35,000.

MINERAL WELLS, TEX.—The State Attorney General has approved an issue of $10,000 water bonds and $15,000 sewer bonds.

TEMPLE, TEX.—This city has decided to purchase the plant of the Temple Water-Works Co. for $120,000 and $50,000 will be expended for improvements.

CLAREMORE, OKLA.—We are officially advised that plans and specifications are being prepared by Burns & McDonald, Civil, Hydraulic and Sanitary Engrs., 709-10 Dwight Bldg., for the installation of the new water supply and for remodeling the water-works plant. The new plant recently completed is without water and the proposed improvements contemplate securing the water supply from the Verdigris River.

MILTON, ORE.—This city is contemplating extending the aqueduct which conducts the water from the Walla Walla River into the city, 1,900 ft. farther up stream to a point about 500 ft. above Couse Creek. At this point a temporary reservoir in which water received by percolation through the gravel will be stored, will be constructed. It is the intention of the water-works department to extend the aqueduct later farther up the stream several hundred feet, in order to acquire a fall sufficient for power purposes to run the electric light plant.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

NEW CUMBERLAND, PA.—This borough contemplates the construction of a new sewer system. Estimated cost, $30,000.

ERIE, PA.—The following contracts were awarded by the City Council on Nov. 25: For the construction of a 12-in. sewer in 11th St., 300 ft. long, to DENNIS O'BRIEN, at $1.00 for 12-in. pipe; 40 cts. for 6-in. pipe; $2 for Y-branch pipe; $40 for manholes; for the construction of a 9-in. sewer in 14th St., to EDWARD DRISCOLL, at $1.15 for 9-in. pipe; 40 cts. for 6-in. pipe; $1.15 for Y or T-branch pipe; $40 for manholes. B. E. Briggs is City Engr.

NEWPORT, PA.—BRADY & SNAVELY, Harrisburg, have been awarded the contract by the Council for the construction of the sewer in the west end, at $3,982. James Irwin, Newport, is Engr. in Charge.

BALTIMORE, MD.—Plans and specifications have been completed by Henry Brauns, Arch., Professional Bldg., 330 North Charles St., for the construction of a sewerage pumping station to be erected on Eastern Ave.

*NORFOLK, VA.—We are officially advised that the following bids were received on Nov. 28, by J. D. Hank, Secy. Local Bd., for the construction of a part of the sewerage system, the work consisting of the following: 1,000 lin. ft. 10-in. terra cotta pipe lateral sewer; 24,000 lin. ft. 8-in. terra cotta pipe lateral sewer; 24,000 lin. ft. 4-in. terra cotta pipe house connections; 50 manholes; 35 flush tanks: Bosler & Flyn, $90,445; D. L. Duffy & Co., $34,075; Gwathmey & Co., $00,310; Guild & Co., $37,640; Bryan & Co., $50,005; Lawson & Miller, $34,755. W. T. Brooke is City Engr.

YORKVILLE, S. C.—The citizens voted on Nov. 20 in favor of issuing $25,000 of bonds for the construction of a sewer system.

KNOXVILLE, TENN.—Bids will soon be asked for the extension of the First Creek sewer in the Eleventh Ward. Estimated cost, $14,000.

SHELBYVILLE, KY.—The City Council has awarded the contract to the MIDDLE WEST CONSTRUCTION CO., New Albany, Ind., for the construction of the sewer and septic tank at about $30,000.

LEXINGTON, KY.—The following bids were opened on Nov. 22 by the Council, for the construction of an 8-in. sanitary sewer in West Sixth St., from a point near Broadway to Jefferson St.: Central Plumbing Co., 63 cts per ft.; Ahern Construction Co., 73 cts. per ft. P. P. O'Neil is City Engr.

CLEVELAND, OHIO.—DALL & SON have been awarded the contract for constructing the drainage sewer, at the New Court House, at about $30,000.

SPRINGFIELD, OHIO.—The following bids were received on Nov. 20, by the Board of Public Service, for the construction of the high level sanitary sewer: Houonker & Williams, plain concrete, $46,604; with rock excavation, $82,354; reinforced concrete, $48,571; with rock excavation, $84,321; vitrified pipe, $56,353; with rock excavation, $92,103; 24-in. pipe and concrete, $46,990; with rock excavation, $82,740; 24-in. pipe and reinforced concrete, $48,642; with rock excavation, $84,392. C. I. McCracken Co., Columbus, vitrified pipe, $52,934, with rock excavation, $88,684. C. M. Long, plain concrete, $28,682; with rock excavation, $64,432; reinforced concrete, $29,170; with rock excavation, $64,920; vitrified pipe, $34,572; with rock excavation, $70,322; vitrified pipe and concrete, $28,953; with rock excavation, vitrified pipe and reinforced concrete, $29,231; with rock excavation, $64,981. W. H. Sieberling is City Engr.

RICHMOND, IND.—HIPSKIND & SON, Wabash, Ind., have been awarded the contract by the Board of Public Works for the construction of Route I of the northwest Second St. sewer system, at $11,700.

Plans have been ordered and bids will soon be asked by the Board of Public Works, for the construction of a trunk sewer in East Madison St.; a pipe-sewer in Edward St.; a pipe-sewer in Niles Ave., and pipe-sewers in Webster, Howard, Miami, Harrison and Blaine Sts. Fred Charles is City Engr.

EVANSVILLE, IND.—Bids are asked until 2 p. m., Dec. 28, by the Board of Public Works, for the construction of a sewer in Seventh Ave., from Franklin St. to Lamasco St. W. F. Wunderlick is City Clk.

MUNCIE, IND.—Bids will soon be asked by the Board of Public Works, for the construction of a sewer in Kilgore Ave. and Jackson St.

DETROIT, MICH.—Plans are being prepared by the City Engineer, for the construction of a new sewer system.

FLINT, MICH.—Bids are asked until Dec. 6, by the City Clerk, for constructing a sewer in Lapeer St.

ELGIN, ILL.—Plans have been completed by the City Engineer for the proposed sewer system for the Sixth Ward.

CAIRO, ILL.—We are officially advised that no bids were received on Nov. 25 by the Board of Local Improvements for the construction of vitrified tile pipe sewers, house connections and inlets, and brick manholes in Division St., Center St. and 21st St. Bids may soon be readvertised. Ernest Nordman is City Comptroller.

ST. PAUL, MINN.—Bids are asked until 2 p. m., Dec. 5, by R. L. Gorman, Clk. Bd. of Pub. Wks., for constructing a sewer in Erie St., from Seventh St., to Grace St.

The contract for the construction of the St. Anthony Park sewer system has been awarded to the GENERAL CONSTRUCTION CO., at $317,000. G. A. Johnson is City Engr.

CAMERON, TEX.—N. Werenskiold, C. E., Dallas, Tex., is preparing plans and specifications for a sewer system for this town.

OAKLAND, CAL.—C. B. Vincent submitted the lowest bid on Nov. 20 for the construction of the east side sewer extension from East Eleventh St. to East Eighth St., at $8,800. F. C. Turner is City Engr.

*SANTA MONICA, CAL.—Detail plans and specifications and estimate of cost to conform to such plans and specifications on file in the City Engineer's office, are requested by Thos. H. James, City Engr., until Dec. 21, for an improvement which includes the construction of a septic tank, and a pier 1,600 ft. in length from the medium tide line of the Pacific Ocean, extending into the ocean, for the purpose of carrying an outfall pipe from the septic tank. Proposals of plans and specifications in detail and estimates are desired as follows: (1) for a septic tank separately; (2) for a wharf, separately; (3) for the septic tank and wharf combined. All plans and specifications and estimates submitted shall be subject to the approval of two competent civil engineers to be nominated by City Council, and whose fees not to exceed $500. The successful competitor must act as consulting engineer in the construction of this work or works in connection with the city engineer. Each competitor must specify what percentage on the total cost of the work covered by the plans and specifications as let to the contractor, he will charge for said plans and specifications and consulting engineering work, not to exceed 5% thereof, and must agree to protect the city against any patents which might be infringed by the structure covered by its plans and specifications. The city engineer will furnish general plan and specifications on application.

ELKO, NEV.—Plans for the construction of a sewer system have been completed. Estimated cost, $60,000.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—The following bids per sq. yd., were received by Foster Crowell, Comr. of Street Cleaning, for furnishing labor and materials required for removal of snow and ice in the Boroughs of Manhattan and the Bronx: B. Masterson, the Bronx, 28 cts.; C. DeMarco, 88 Mulberry St., the Bronx, 25½ cts., District 11, 29 cts. Cavanaugh Bros. (by districts): (1) 58 cts., (2) 57 cts. (3) 57 cts., (4) 55 cts., (5) 48 cts., (6) 52 cts., (7) 42 cts., (8) 49 cts., (10) 51 cts., (11) 51 cts. Thomas Crimmins Contracting Co., 444 East 63d St. (by districts): (1) 47 cts., (2) 47 cts. (3) 47 cts., (4) 47 cts., (5) 45 cts., (6) 45 cts., (7) 46 cts., (8) 54 cts., (9) 35 cts., (10) 32 cts., (11) 33 cts. The Bronx, 37 cts. F. T. Willigan Co., 1107 Fox St., the Bronx, 33¼ cts. Charles Snyder, 28 cts. I. Concondi Co., District 11, 46 cts. R. J. Kane, District 9, 55 cts.; 11, 40 cts., the Bronx 50 cts. L. Worthington, District 5, 70 cts. J. W. Duncan, District 11, 30 cts., the Bronx, 25 cts. Thompson Bros., Fifth Ave and 141st St., District 9, 36 cts.; 11, 32 cts.

The following bids were received at the same time for removal of snow and ice in the Borough of Brooklyn (by districts): J. E. Menahan (1) 29 cts., (2) 35 cts., (3) 35 cts., (4) 18 cts., (5) 29 cts., (6) 35 cts., (7) 33 cts., (8) 33 cts. James Reilly, (2) 40 cts. Hill & Hayes, (4) 39 cts. Norton & Gorman, (1) 37½ cts., (2) 37½ cts., (3) 47½ cts., (4) 47½ cts., (5) 47½ cts., (6) 47½ cts., (7) 47½ cts., (8) 37½ cts. Henry Newman, (4) 29.9 cts., (5) 39.9 cts., (7) 39.9 cts. Charles Cranford, Foster Ave., Brooklyn, (1) 35 cts., (2) 40 cts., (3) 35 cts., (4) 55 cts., (5) 55 cts., (6) 55 cts., (7) 55 cts., (8) 40 cts. Donlon Contracting Co., (1) 53 cts., (2) 53 cts., (3) 79 cts., (4) 50 cts., (5) 79 cts., (6) 85 cts., (7) 47 cts., (8) 47 cts. Wm. Nolan, (2) 29 cts. Bracken McAvaney Co., 44 Court St., Brooklyn, (1) 40 cts., (2) 34 cts., (3) 40 cts., (4) 30 cts., (5) 48 cts., (6) 48 cts., (7) 30 cts., (8) 30 cts. H. Starr, (2) 28¾ cts. J. M. Fox, (6) 49 cts.

*PHILADELPHIA, PA.—Bids are asked by George R. Stearns, Dir. Pub. Wks., until noon Dec. 10, for cleaning streets, alleys, public market houses, and for the removal of ashes, household waste, rubbish, etc.

The following bids were received on Nov. 29 by the officials of the Highway Bureau, for the collection of the city garbage for the coming year: Penn Reduction Co., 14 South Broad St., 488,988; American Product Co., Pennsylvania Bldg., $505,144.

BALTIMORE, MD.—The Municipal Board of Awards has awarded the contract to the BALTIMORE PRODUCTS CO., Michael T. Herner, Pres., Enser St. and Ashland Ave., for the disposal of the city's garbage from 1909 to 1918 at $631,000. The company also agrees to purchase the city disposal plant for $100,000 and ther from the city. The n is run on the Arnold-Edger have a number of improve tions.

*COLUMBUS, OHIO.—Bids noon, Jan. 14, by the Board ice, for the construction of duction works. Henry Maet Bd. E. F. McGuire is Secy

OLYMPIA, WASH.—Plans mulated for the construction disposal works here.

STREETS AND RO

(denotes that this work is Engineering News.)*

ALBANY, N. Y.—The follow received by Frederick Skene, neer and Surveyor, on Novem the improvement of the State Fulton-Volney Road No. County, 2.090 miles: Chamber Rochester, N. Y., $16,783; John Albany, N. Y., $18,852; Stewar Shanley Co., 527 5th Ave., New 766; Barnett Contracting Co., Y., $16,850.

Fly Road No. 553, Ononda 2.330 miles: John H. Gordon Y., $22,596; Stewart-Kerbaugh-S New York, $21,539.

Fablus Road No. 554, Ononda 4.910 miles: Stewart-Kerba Co., 527 Fifth Ave., New York

East Syracuse-Chittenango Onondaga County, 7.790 miles: Kerbaugh-Shanley Co., 527 Fifth York, $88,593.

Millbrook, Lithgaw Road No. ess County, 4.400 miles: General tion Co., Bridgeport, Conn., $37,4 art-Kerbaugh-Shanley Co., 527 New York, $38,761; Samuel Besk kill, N. Y., $37,398.

Mt. Kisco-Millwood Road No. chester County, 4.390 miles: T. yea, New York, $40,232; William Cabe, White Plains, N. Y., $36,77 J. Fowler Construction Co., Mt. Y., $41,011; Bellew & Merritt Co. hoe, N. Y., $36,842; Latta & Terry struction Co., Philadelphia, Pa., Stewart-Kerbaugh-Shanley Co., $44,258.

Homer-Tully Road No. 595, Sec land County, 5.430 miles: Chambers & Grady, Rochester, N. Y., $43,327; A. Lillis, Troy, N. Y., $43,437; Kerbaugh-Shanley Co., 527 Fifth York, $43,765.

Norwich-Preston Road No. 598, County, 5.090 miles. Stewart-Shanley Co., 527 Fifth Ave., New $52,665.

Manchester-Clifton Springs Road No. Ontario County, 4.350 miles: Mosier & Summers, Buffalo, N. Y., $27,160; Wilson Construction Co., Buffalo, N. $26,487; Chambers & Grady, Rochester, Y., $26,524.

Wolf Hill-Berne Road No. 596, County, 7.340 miles: Brown & Schenectady, N. Y., $69,590; Morris rowitz, Albany, N. Y., $66,797; Jeremiah T. Finch, Glens Falls, N. Y., Stewart-Kerbaugh-Shanley Co., $67,849.

Phelps-Clifton Springs Road No. tario County, 2.210 miles: Construction Co., Buffalo, N. Y., Mosier & Summers, Buffalo, N. Y., Chambers & Grady, Rochester, N. Y., 400.

Washington Hollow-Millbrook Road No. 609, Dutchess County, 1.630 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $13,649; General Construction Co., Bridgeport, Conn., $12,787; Samuel Beskin, Fishkill, N. Y., $12,777.

Catskill-South Cairo Road No. 613, Greene County, 5.620 miles: John E. Consaulus, New York, $57,087; Morris Kantrowitz, Albany, N. Y., $57,138; D. Moynehan, Herkimer, N. Y., $59,027; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $59,966.

Geneseo-Avon Road No. 623, Livingston County, 6.990 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $36,515.

North Tonawanda-Sanborn Road No. 643, Secs. 1 and 2, Niagara County, 4.440 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $39,829.

Hudson-Stottsville Road No. 649, Columbia County, 1.020 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $14,030.

Clintonville-Keeseville Road No. 651, Clinton County, 5.580 miles: Lenihan & Burnham, Glens Falls, N. Y. (informal): Jeremiah T. Finch, Glens Falls, N. Y., $55,750; Buckley Construction Co., Plattsburgh, N. Y., $55,765.

Granby Roads No. 653, Oswego County, 5.060 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $57,580.

Croton River-Peekskill Road 657, Westchester County, 6.010 miles: Bellew & Merritt Co., Tuckahoe, N. Y., $71,2[illegible]; William F. McCabe, White Plains, N. Y., $71,-088; A. W. Canney, Croton, N. Y., $82,-880; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $76,990.

Griswold St.-Bratts Bridge Road No. 660, Niagara County, 5.980 miles: Akron Construction Co., Akron, N. Y., $65,[illegible]; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $65,269.

Milford Center-Milford Road No. 674, Otsego County, 6.520 miles: Buckley Construction Co., Plattsburgh, N. Y., $70,347; J. K. Palmer & Co., Clearfield, Pa., $70,-050; M. L. Selver & Co., Sidney, N. Y., $76,017.

Otego-Oneonta Road No. 67[illegible] Otsego County, 3.990 miles: Buckley Construction Co., Plattsburgh, N. Y., $43,5[illegible]; J. K. Palmer & Co., Clearfield, Pa., $[illegible],179; M. L. Selver & Co., Sidney, N. Y., $[illegible],002.

Otego-Wilsey's Corners Road No. 676, Otsego County, 2.060 miles: M. L. Selver & Co., Sidney, N. Y., $19,976; J. K. Palmer

& Co., Clearfield, Pa., $17,088; S. B. Van Wagner, Rondout, N. Y., $17,164.

Edmeston-West Burlington-Kelsey's Corners Road No. 677, Otsego County, four miles: M. L. Selver & Co., Sidney, N. Y., $43.

Milford-Gilbertsville Road No. 678, Otsego County, 2.640 miles: M. L. Selver & Co., Sidney, N. Y., $24,621; S. B. Van Wagoner, Rondout, N. Y., $24,577.

Cayuga-Meridan-Baldwinsville Road No. 684, Cayuga County, 4.400 miles: Stewart-Kerbaugh Co., 527 Fifth Ave., New York, $25,753.

PERTH AMBOY, N. J—The Committee on Streets and Sewers has been authorized to purchase 300 tons of stone for road repairing.

PROJECT, N. J.—It has been decided to grade, curb and gutter the following streets and avenues: Haledon Ave. (east side), from Hope St. to lands of Joseph R. Grahamp; Ninth St., from Haledon Ave. to lands of Garrit Planten.

WOODBURY, N. J.—The citizens have voted $7,000 bonds for street improvements.

SALEM, N. J.—Specifications are on file at the office of Engineering News, New York, for grading and placing oyster shells on the Mannington Road, 1.58 miles, in Mannington Township. Bids are asked until Dec. 20. Alfred L. Sayers is Dir. Bd. Chosen Freeholders. J. J. Albertson is County Engr.

WASHINGTON, PA.—Until noon, Dec. 20, by County Commissioners, for repair of improved roads. Wm. Wylie, County Engineer.

BEAVER, PA.—The Pennsylvania R. R. Co. contemplates expending $75,000 on paving and putting cement curb on New Brighton St. in return for certain concessions which they will receive from the city.

HARRISBURG, PA.—Bids are asked until Dec. 11 by the State Highway Department, Harrisburg, for constructing two roads, 2,700 ft. long and 6,932 ft. long in Lower Mifflin Township, Cumberland County.

Bids are asked until Dec. 13, by the State Highway Department, Harrisburg, for constructing a road 600 ft. long in Mechanicsburg Borough, Cumberland County, and two roads in Hampden Township, same county, 5,730 ft., and 1,520 ft. long.

COLUMBUS, S. C.—We are officially advised that the following bids were received on Nov. 25 by the Street Commissioner for paving Main St. with brick: Georgia Engineering Co., Augusta, Ga., $173,560; W. F. Bowe, Augusta, $174,780; John J. Cain, Columbia, $225,800; Atlantic Bitulithic Co., Richmond, $203,593; Southern Paving & Construction Co., Chattanooga, $237,874.

DICKSON, TENN.—A company is being organized to turnpike the public road from Dickson to Charlotte, a distance of eight miles, by Pitt Henslee of Dickson and W. L. Cook and J. J. Taylor, Charlotte, Tenn. Estimated cost, $1,000 per mile.

ASHTABULA, OHIO.—Bids are asked by the Board of Public Service until noon, Dec. 10, for improving Kingsville Ave. from the east end of the viaduct to the east line of the North Boulevard, by grading, draining, curbing and constructing foundations, and paving with vitrified block, the work including approximately 370 cu. yds. excavation, 868 sq. yds. vitrified block pavement, 276 lin. ft. cement curb and gutters and 154 ft. of sewer. A. J. Richardson is Clk. Bd.

ZANESVILLE, OHIO.—The following bids were opened on Nov. 22 by the Board of Public Service for paving (a) Finley Ave. and (b) Culbertson Ave.: J. L. Mercer, (a) $3,720, (b) $4,934; T. M. Lynn, (a) $3,661, (b) $4,878; Adams Bros. (a) $3,805, (b) $5,273; Dunzweiler, (a) $3,634, (b) $5,042; Gregg & Dutro, (a) $3,502, (b) $4,946; Petit & Abele, (a) $3,119, (b) $4,282; J. S. Woodrow, (a) $3,574, (b) $3,655.

STEUBENVILLE, OHIO.—Bids are asked until noon, Dec. 16, by the Board of Public Service for paving Market St. from Liberty St. west to the first alley west of Liberty St. T. W. Vance is Clk. Bd.

TOLEDO, OHIO.—Bids are asked until noon, Dec. 5, by Reynold Volt, Sec. Bd. Pub. Serv. for labor and material for laying all delinquent cement concrete sidewalks and driveways and for laying, relaying and repairing all delinquent stone sidewalks and driveways for a period of one year, in three sidewalk districts.

SOUTH BEND, IND.—An election has been ordered to vote on a proposition of constructing about 25 miles of stone roads in Penn township.

DANVILLE, IND.—Bids are asked by the Commissioners of Hendricks County until 10 a. m., Dec. 15, for the construction of a gravel road in Marion Township, 6,600 ft. in length. D. D. Mills is County Audr.

GREENFIELD, IND.—Bids will soon be asked by the Commissioners of Hancock and Marion counties for the construction of a gravel road on the county line, 15,840 ft. in length.

COLUMBUS, IND.—Bids are asked by the City Council until 7.30 p. m., Dec. 16, for the construction of cement curbs and gutters and cement walks in Fourth and Brown Sts., and for the construction of cement walks in Eleventh and Twelfth Sts. L. F. Orr is City Clk.

INDIANAPOLIS, IND.—The Board of Public Works has taken final action and bids will soon be asked for the construction of a brick roadway and curb in Ray St. for brick roadway in first alley south of 10th St., same in first alley north of 14th St., and same in first alley north of Tenth St.

CEDAR RAPIDS, IOWA.—Bids are asked by the Public Improvements Committee until 7.30 p. m. Dec. 5, for paving various streets and avenues.

ST. LOUIS, MO.—Bids are asked until Dec. 10 by the Board of Public Improvements for the improvement of various alleys. J. J. O'Reilly, Pres. Bd.

FT. WORTH, TEX.—THE TEXAS BITULITHIC PAVING CO. was awarded the contract on Nov. 19 by the Municipal Commission for 120,000 sq. yds. of paving at about $240,000. Henry Dixon is City Engr.

COLORADO SPRINGS, COLO.—Plans and specifications prepared by E. R. Ashworth, City Engr., for the improvement of parking district No. 3, lying on Cascade Ave., between Platte Ave. and Cache La Poudre St., have been accepted by a special committee of the Board of Aldermen; estimated cost, $27,000. Bids will soon be asked.

SPOKANE, WASH.—The Board of Public Works has awarded the contract to H. L. LILIENTHAL for grading, parking and curbing Summit Boulevard and Mission Ave. from the east line of Cochran St. extended to the intersection of Ide Ave. at Oak St., at $21,316, and for building the sidewalks, $6,644. The Engineer's estimate was. Grading, etc., $23,757; sidewalks, $6,935. Charles McIntyre is City Engr.

SEATTLE, WASH.—We are officially advised that the following street improvements have been decided upon: North and West 70th St., et al, grading, etc., estimated cost, $21,400; Erie Ave. et al, concrete walks, $9,900; Madison St., sand stone paving, $21,500; 36th Ave., et al, water mains, $7,300; Virginia St., asphalt paving, $16,200; Virginia St., planking, $4,700.

Ordinances have been passed ordering the following street improvements: Fremont Ave., et al, concrete walks, $32,650; Cherry St., sand stone paving, $7,500; Third Ave., North sewers, $5,000; Hella St., et al, water mains, $7,700; 37th Ave., South, grading and concrete works, $11,400; Florentia St., grading, $6,640; 12th Ave., North, et al, grading, etc., $9,000; Third Ave., concrete sidewalks, $15,700; Fourth Ave., South, grading, $67,000; Columbia St., paving, $7,000; 34th Ave., et al, concrete walks, $10,600.

HAILEYBURY, ONT.—LONG & TWAIN, Haileybury, have been awarded the contract for the construction of a winter road from the Temiskaming & Northern Ontario Ry. Co., through Bryce and James Townships. G. A. McCarthy is Ch. Engr. T. & No. Ont. Ry. Co.

A. & E. AKERLAUD, Haileybury, have secured the contract for constructing a road six miles long from Thornloe through Cane and Barber Townships to the Montreal River.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

BUFFALO, N. Y.—The International Engine Co., at a meeting held in Buffalo Nov. 16, authorized the erection of a plant for the manufacture of high-grade engines and boilers, it is stated. The location of the plant has not been decided upon. H. S. Jeffrey, 318 South Hyde Park Ave., Scranton, is Pres. and C. W. Limstrom, of Galesburg, Ill., Secy. and Treas.

NEW YORK, N. Y.—Plans have been filed for erection of a 6-story addition to the 6-story factory of H. Goldwater & Co., 182 Avenue C. Gross & Kleinberger, Bible House, are Archs.

Bids are asked until 10 a. m., Dec. 10, by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing bolt and pipe threading and drilling machines, lathes, etc., at the Navy Yard, New York.

Plans have been filed with the building superintendent by A. V. Porter, Arch., 621 Broadway, for Adrian Joline and Douglas Robinson, receivers of the New York City Ry. Co., for the office building and carhouse to be erected for the Metropolitan system at the corner of Lenox Ave. and 146th St., adjoining the power station and car shops in 146th St., which were damaged by fire in April. The new building will be of brick with trimmings of terra cotta, two stories high, fronting 199.10 ft. on the avenue and having a full depth of 469 ft. on 147th St. It is to cost $400,000. The power station and shops are to be completed at the same time, making of them a 4-story building as originally designed, the work of completion costing an additional $25,000.

HARRISON (Newark post-office), N. J.—The contract to erect a 3-story, 62 × 121 ft. reinforced concrete building for the General Electric Co. at Sussex and Fourth Sts., has been awarded to SALMOND BROS. CO., of Kearney. The cost of the building, including equipment, it is stated, will be about $32,000.

ERIE, PA.—It is intended by the Erie City Iron Works to erect a storage building, 75 × 400 ft., with a 30-ton crane. It has not been decided whether construction will be of of steel or concrete.

GIRARD, PA.—The U. S. Steel Corporation, 71 Broadway, New York, has had tentative plans prepared for an ore harbor to be established on Lake Erie near Girard, for the care and shipment of ore from the Northwest to the lower lakes and the furnaces in the Pittsburg district. The improvements, it is reported, will be started soon, and extensive machinery will be installed and the total cost will be several millions. William J. Filbert is Comptroller, New York.

DUNBAR, PA.—A cement plant, to cost $500,000, is to be erected by the Pittsburg Cement Corporation, capitalized at $500,000, with Alexander Gilmore as Pres.; A. L. Klouse, Treas. and J. B. Johnson, Secy.

NEW KENSINGTON, PA.—Plans are being prepared by F. A. Rider for a brick cold storage plant to be built at New Kensington for the New Kensington Ice & Cold Storage Co. Estimated cost, $40,000.

WILMINGTON, DEL.—It is stated that Harlan & Hollingsworth are making arrangements to erect car shops here.

HUNTINGTON, W. VA.—P. N. Alger is preparing plans for a 3-story brick shoe factory building, 220 × 40 ft., for the Newberry Shoe Co., Jeff Newberry and U. B. Buskirk, Mgrs.

WILSON, N. C.—A stock company is being formed at this place to start a cotton mill. The location of the factory has not yet been decided, but it is probable that it will be built on the Norfolk & Southern Ry., in the western section of the town. B. S. Boykin is one of the promoters.

BAINBRIDGE, GA.—The Warren Brick Co. will rebuild the brick plant recently burned, plans for which have not yet been prepared.

HANSEN (Irwinville post-office), GA.—The plant of the Hansen Sand Lime Brick Co. will be enlarged to three times its present capacity, installing all additional equipment.

BIRMINGHAM, ALA.—William Ernest Spink, 812 Title Guarantee Bldg., has prepared plans for a boiler room, engine room and laundry building for the Birmingham Railway, Light & Power Co., to cost $30,000. J. A. Emery, Birmingham is Gen. Mgr.

KENNER, LA.—The Kenner Ice & Cold Storage Co. has been organized with Edward Stculig, Pres.; V. Costa, Vice-Pres., and John Clancy, Treas., to erect an ice-making and cold storage plant at a cost of about $25,000.

MORRISTOWN, TENN.—H. G. Gildard, of the Brookside Mills, Knoxville, is planning the organization of a company to establish a cotton cloth mill at Morristown. It will have a capital stock of $150,000 and a mill of 9,000 spindles and 200 looms will be erected. The product will be cloth used by the linoleum and rubber trades.

CHATTANOOGA, TENN.—The Southern Car Mfg. & Supply Co., James M. Wiggs, Pres., Beaumont, Tex., is proceeding with arrangements for establishment of proposed plant in Chattanooga on a site of twelve acres. Adams & Alsup, Chamberlain Bldg., are now preparing plans for buildings, including machine shop, 100 × 170 ft. All structures will be fireproof, constructed of steel and concrete, with window sashes and frames of galvanized iron and roof of tiling. The CONVERSE BRIDGE CO. has contract for steel work. Completed plant will cost $100,000 and give employment to about 200 machinists. Machinery has been purchased.

CINCINNATI, OHIO.—Harry Hake, Arch., Union Trust Bldg., has let general contract to GEORGE E. McDONALD & CO., 13 East Lippincott St., for factory buildings for the Ault & Wiborg Co., 432 New St. Cost, $75,000.

DAYTON, OHIO.—Bids are asked until Dec. 15 by C. Raymond Co. for construction of a foundry building to cost $100,000.

EVANSVILLE, IND.—The Blount Plow Works Co. has incorporated to build, equip and operate a plant for the manufacture of plows. H. H. Walter, E. Blount and William Davidson are Dirs.

LOGANSPORT, IND.—Logansport Radiator Equipment Co. has been incorporated for the purpose of erecting a radiator factory in this city. Capital, $50,000. F. Digan and A. D. Benson are interested.

ADRIAN, MICH.—Wing & Parson Mfg. Co. proposes to erect three buildings including a foundry, 200 × 80 ft., a mill room, 50 × 75 ft. and a pattern vault, 30 × 50 ft.

ALLEGAN, MICH.—The Allegan Mirror Plate Co. has had plans prepared for an addition, 36 × 100 ft., to its plant. Work is to be done at once. Next year the company proposes to build an addition, 60 × 200 ft. Cement will be used.

GARY, ILL.—The Combined Liquid Tank & Freight Car Co. has secured a site in Gary, it is reported, on which it is proposed to erect ten brick buildings for the manufacture of refrigerator and stock cars to cost about $250,000.

MILWAUKEE, WIS.—C. H. Stehling is preparing plans for a tannery to be erected next spring by the Fred. Rueping Leather Co., of Fond du Lac, on Kinnickinnic Ave. and Lincoln St. To protect the establishment from the river a concrete wall 1,200 ft. long and 30 ft. high will be built. Two 6-story buildings, 60 × 120 ft., will be used for the currying and finishing departments. In addition to these there will be hide trimming, glue storage, beam hair drying, lime and boiler houses and a pattern and machine shop. The boilers will be of 4,500 HP. each, and the machinery of the plant will be operated by motors. A water tower, storage house and heater house will also be erected. All of the buildings will be built of steel and concrete.

OMAHA, NEB.—The Updike Grain Co., Bee Bldg., Omaha, is planning to double the capacity of its flour mill at Sherman and Charles St. The present capacity is 1,000 bbls.

KANSAS CITY, MO.—Oscar Knecht, Long Bldg., is preparing preliminary plans for a laundry building to have two stories and basement, brick and stone construction, 75 × 120 ft., and to cost $30,000.

MARIANNA, ARK.—J. S. Walsh, of Caruthersville, Mo., will build an ice plant in this city, it is stated, to be ready for operation next season. As soon as he finds a suitable location for the plant, he will begin at once to get the machinery, etc.

FORREST CITY, ARK.—The Forrest City Box Co. will establish a plant for the manufacture of box shooks, with capacity, 50,000 ft. per day. The company will erect building 100 × 160 ft. Cost of building and machinery, $30,000. W. F. Perkins is Engr.-in-Charge; G. V. Nash, Pres.; E. J. Schlosser, Treas., and F. J. Schmuck, Supt.

COALGATE, OKLA.—The Coalgate Ice & Fuel Co., incorporated with $75,000 capital stock, will erect a building at cost of $5,000 for ice factory. It will establish also wood and coal yard and will install machinery at a cost of $23,000. J. W. Jacobs is Pres.; Lee Elzey, Vice-Pres.; A. M. Snedden, Secy.

SPOKANE, WASH.—Press reports state that Jacob Hortska of Nashville, Tenn., has secured a site from the Railway Land & Improvement Co. on which he will build a denatured alcohol plant at the new town of Stayton on the Spokane & Inland Ry. To establish and operate the plant a company with a capital of $25,000 is being organized. The plant will have a capacity of about 400 gallons a day.

SAN FRANCISCO, CAL.—Miller & Lux, 862 Howard St., have applied for a permit to build an abattoir and packing house on Kentucky St. and Second Ave., South. Only about one-fourth of the structure finally to be built will be erected at once at an estimated cost of $150,000. E. G. Rodolph is Supt. Meat Dept.

VENTURA, CAL.—See under Electric Railways.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

WALL.—Milwaukee, Wis.—See under Manufacturing Plants.

DITCH.—Desmet, S. Dak.—Bids are asked until Jan. 7 by P. A. Carroll, County Audr., for constructing Drainage Ditch No. 1, Baker Township.

DITCH.—Sac City, Iowa.—Bids are asked until Dec. 10 by J. J. Harter, County Audr. at Sac City, for constructing Ditch No. 10, Sac County, and Ditch No. 69, Calhoun County.

TUNNEL.—Duluth, Minn.—The LANTRY CONSTRUCTION CO., Midland Hotel, Kansas City, Mo., has contract for building a tunnel for the Wisconsin Central Ry. Co., Duluth. Cost, $500,000.

DOCK.—Superior, Wis.—Bids are asked by the Pittsburg Coal Co. until Dec. 10 for the construction of a dock in Superior. C. J. A. Morris, of Superior, is Consult. Engr.; C. P. White is Gen. Mgr.

REMOVING WRECK.—Boston, Mass.—Bids are asked by Major Edward Burr, Corps Engrs., U. S. A., until Dec. 27, for removal of wreck of steamship "City of Birmingham," lying in Upper Main Ship Channel of Boston Harbor.

STEEL CAGES.—Tahlequah, Okla.—The County Commissioners of Cherokee County, Okla., have decided to purchase three steel cages to be used in a temporary jail. For information address Thos. J. Carlile, County Clerk, Tahlequah.

WHARF.—San Francisco, Cal.—The Board of Harbor Commissioners has approved the plans of the engineer for a large lumber wharf in Central basin and the Board has called for bids for construction of the wharf at a cost of $70,000.

DITCH.—Webster City, Iowa.—Bids are asked until Dec. 14 by the Board of Supervisors for constructing the Robbins Drainage Ditch No. 32; also the Brandrup Drainage Ditch No. 31. O. A. Cragwich is County Auditor; George S. Neel is Chn.

PIER.—Charleston, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to WILLIAM L. MILLER, 19 Milk St., Boston, Mass., contract at $99,000 for the construction of a wood and concrete pier at the navy yard, Charleston, S. C.

*METAL LIONS.—Washington, D. C.—Bids are asked until noon, Dec. 21, by the Commissioners, District of Columbia, for furnishing four metal lions (dimensions—base about 7 ft. × 12 ft.; height about 9 ft.) for Connecticut Ave. bridge in the District of Columbia.

FORGE, ETC.—Annapolis, Md.—Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Dec. 10, to furnish at the Naval Academy, Annapolis, Md., a quantity of pipe fittings and forge. Applications for proposals should refer to Schedule 570. E. B. Rogers is Paymaster Gen., U. S. N.

*LOCKS AND DAMS, ETC.—Mobile, Ala.—Bids were received by Maj. H. Jervey, Corps Engrs., U. S. A., on Nov. 25, for constructing locks and dams Nos. 14 and 15, Black Warrior River, Ala.; also for constructing lock tenders' houses. Bid of the Dravo Contracting Co., of Pittsburg, Pa., has been recommended for acceptance. Estimated cost, $700,000.

CONDUIT LINES, ETC.—Long Island City, N. Y.—The ABBOTT-GAMBLE CO., 32 Broadway, New York, has been awarded contract by J. R. Savage, Ch. Engr. of the Long Island Railroad Co., for the construction of the abutments, etc., in the North Shore yard, Long Island City; and also for the reconstruction of a portion of the main conduit line, in connection with the North Shore yard improvements.

*BOARDWALK.—Atlantic City, N. J.—Bids are asked until 8.30 p. m., Dec. 9, by the Streets, Walks, and Drives Committee, Council Chambers, City Hall, for the construction of a boardwalk along the ocean front, between Pacific Ave. and Connecticut Ave. It is to be approximately 2,900 ft. in length and to be constructed with a wood floor upon wood or reinforced concrete joists supported by reinforced concrete girders and columns. J. W. Hackney, City Engr. William Riddle, Chn. Com.

*MARGINAL CONDUIT.—Boston, Mass.—Bids are asked until 2.30 p. m., Jan. 6, by the Charles River Basin Commission, 367 Boylston St., for building Section 6 of the Boston marginal conduit and Section 4 of the Boston embankment, requiring about 18,000 cu. yds. of earth fill, 29,000 lin. ft. of piles, 3,000 cu. yds. of concrete masonry, 240 cu. yds. of stone masonry, 400 tons riprap; the removal of about 600 cu. yds. of masonry and the construction of three coffer-dams. The work to be done includes the construction of a gate-chamber at the junction of the existing Stony Brook conduits and the Boston marginal conduit. The embankment will be about 140 ft. long and 100 ft. wide. Hiram A. Miller, Ch. Engr.

REPAIRING STEAMER.—New York, N. Y.—Bids were received on Dec. 3, by John V. Coggey, Comr. Correction, for furnishing all the labor and materials required for making

and completing the alterations and repairs to the steamer "Massasoit," as follows: John W. Sullivan, 827 East Ninth St., $9,500; Shooters Island Shipyard Co., Produce Exchange, $12,995; Jas. Tregarther & Son, foot Seventh St., East River, $10,500; Theo. Smith & Son, foot of Essex St., Jersey City, $11,450; Jas. Shewan & Son, foot Houston St., East River, $9,700; John F. Walsh, 137 Charlton St., $11,500; Morse Dry Dock & Repair Co., 17 State St., $11,972; Atlantic Basin & Iron Co., $15,500; Griscom Spencer Co., 90 West St., $11,000; Crescent Marine Engine Co., 78 Broad St., $15,780.

REVENUE STEAMERS.—Washington, D. C.—Bids were received as follows on Nov. 27, by Beekman Winthrop, Asst. Secy., Treasury Dept., for building for the U. S. Revenue Cutter service a revenue steamer for duty in Puget Sound, to be known while in course of construction or until launched as (a) revenue cutter No. 20; and for the construction of a revenue steamer for duty at Savannah, Ga., to be known while in course of construction or until launched as (b) revenue cutter No. 21; (c) both vessels: Newport News Shipbuilding & Dry Dock Co., Newport News, Va., (a) $215,000; (b) $217,500; (c) $396,500. Fore River Shipbuilding Co., Quincy, Mass., (c) $415,000. New York Shipbuilding Co., Camden, N. J., (a) $189,000; (b) $189,000; (c) $346,000. Pusey & Jones, Wilmington, Del., (a) $215,000; (b) $216,500; (c) $414,450. Maryland Steel Co., Sparrows Point, Baltimore, Md., (a) $227,500; (b) $230,000; (c) $449,500.

BARGE CANAL.—Albany, N. Y.—Plans, specifications and estimates for two additional barge canal contracts, namely, contracts Nos. 9 and 20, were presented to the Canal Board on Nov. 26th by Frederick Skene, State Engr. and Surveyor, and were finally adopted. Contract 9, in final form, is for excavating the canal and protecting its sides, constructing ten culverts, constructing sub- and superstructures and approaches for five bridges, and incidental work, between Eagle Harbor bridge and Beal's bridge, Orleans County. The cost of the work will approximate $724,000. Contract No. 20 includes the Mohawk River dredging work, formerly advertised, and for which no bids were received on Oct. 17th, and in addition, the length of the contract has been increased with a further amount of dredging in the river. It is likely bids will be asked on both contracts shortly. F. C. Stevens, Supt. Public Works, Albany, has charge of the advertising and awarding of the contracts.

U. S. POSSESSIONS AND CUBA.

TIE PLATES.—Panama.—Bids were received as follows on Dec. 2, at the office of the Isthmian Canal Commission, Washington, D. C., for furnishing 157,500 tie plates: United States Steel Products Export Co., 24 State St., New York, $12,127; 60 days. R. C. Hoffman Co., Baltimore, Md., $11,045; $10,877; $25,889; 50 days.

LUMBER.—Panama.—Bids were received Dec. 2, at the office of the Isthmian Canal Commission, Washington, D. C., for furnishing 30,000 cypress ties, 7 × 9 ins. × 8½ ft.: Johnson & Winsatt, Washington, $29,100; 130 days. L. J. Merriman, Wilmington, N. C., $26,955; 120 days. American Ice & Timber Co., 11 Broadway, New York, $25,470; 30 days. G. S. Baxter & Co., 17 William St., New York, $26,100; 42 days. William P. Cook & Co., 100 Wall St., New York, $24,000; 55 days. G. Elias & Bro., Buffalo, N. Y., $33,000; 180 days.

TOWBOAT.—Panama.—Bids were received as follows, Dec. 2, at the office of the Isthmian Canal Commission, Washington, D. C., for the furnishing of a stern-wheel towboat, steel hull, and complete machinery, including steel gear and pilot wheel. Length, 108 ft.; width, 20 ft.; draft, 2 ft. 8 ins.: Maryland Steel Co., Sparrows Point, Baltimore, Md., Colon, $45,650; 240 days; New York, $44,950; 225 days; Sparrows Point, $44,500. Motley, Green & Co., 66 Broad St., New York, New York delivery, $31,500; 240 days. Pusey & Jones Co., Wilmington, Del., New York delivery, $25,493; 6 months; Wilmington delivery, $24,793; 6 months. Charles Ward Engine Works, Charlestown, W. Va., Charlestown delivery, $27,500; 240 days.

CONTRACT PRICES.

STRUCTURAL STEEL.—Washington, D. C.—Bids were received Nov. 27 at the office of J. Elliott Woods, Supt. of the Capitol Buildings and Grounds, Washington, D. C., for furnishing the structural steel work for the roof of the office building of the U. S. Senate, Washington: (1) price per lb. for plain shapes; (2) shapes punched web or flange; (3) shapes punched web and flange; (4) shapes punched and fitted, web or flange; (5) shapes punched and fitted, web and flange; (6) curved shapes for ceiling over rotunda.

American Bridge Co., Continental Trust Bldg., Baltimore, Md., $24,950: (1) 1.845 cts.; (2) 2.095 cts.; (3) 2.195 cts.; (4) 2.295 cts.; (5) 2.395 cts.; (6) 4 cts.

Phoenix Iron Co., 410 Walnut St., Philadelphia, $24,339: (1) 1.945 cts.; (2) 2.095 cts.; (3) 2.195 cts.; (4) 2.375 cts.; (5) 2.375 cts.; (6) 3.445 cts.

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, $34,124: (1) 2.25 cts.; (2) 2.4 cts.; (3) 2.5 cts.; (4) 2.6 cts.; (5) 2.6 cts.; (6) 10 cts.

McClintock, Marshall Construction Co., Park Bldg., Pittsburg, Pa., $27,460: (1) 2.2 cts.; (2) 2.4 cts.; (3) 2.5 cts.; (4) 2.7 cts.; (5) 2.75 cts.; (6) 4 cts.

Baltimore Bridge Co., Bush and Wicomico Sts., Baltimore, Md., $27,400: (1) 2.9 cts.; (2) 2.26 cts.; (3) 2.29 cts.; (4) 2.43 cts.; (5) 2.46 cts.; (6) 4.2 cts.

Strobel Steel Construction Co., Monadnock Bldg., Chicago, $28,000: (1) 2.25 cts.; (2) 2.5 cts.; (3) 2.75 cts.; (4) 2.75 cts.; (5) 2.75 cts.; (6) 3.50 cts.

Brown, Ketcham Iron Works, 2549 West Michigan St., Indianapolis, Ind., $24,750; (1) 1.95 cts.; (2) 2.15 cts.; (3) 2.24 cts.; (4) 2.65 cts.; (5) 2.75 cts.; (6) 3.77 cts.

Milliken Bros., 11 Broadway, New York, $31,700; (1) 2 cts.; (2) 2.3 cts.; (3) 2.35 cts.; (4) 2.5 cts.; (5) 2.5 cts.; (6) 5 cts.

J. B. & J. M. McConnell, New York, $28,800; (1) 2.53 cts.; (2) 2.65 cts.; (3) 2.7 cts.; (4) 2.75 cts.; (5) 2.8 cts.; (6) 3.45 cts.

*SEWER SYSTEM.—Norfolk, Va.—Bids were received on Nov. 28 by J. D. Hank, Secy. Local Bd., Seventh Ward, Norfolk, for construction of a part of sewer system in said ward. Bids were submitted by (A) Bosler & Flyn, (B) D. L. Duffy & Co., (C) Gwathmey & Co., (D) Guild & Co., (E) Bryan & Co., (F) Lawson & Miller, whose bids were as follows:

	A	B	C	D	E	F
1,000 ft. 10-in. terra cotta pipe, lateral sewer	$3.60	$1.93	$3,98	$1.85	$2.25	$2.50
24,000 ft. 8-in. terra cotta pipe, lateral sewer	2.55	0 68	1.73	1.04	1.42	0.97
24,000 ft. 4-in. terra cotta pipe, house connections	0.73	0.45	0.39	0.27	0.36	0.20
50 Manholes	75.00	55.00	60.00	45.00	50.00	45.00
35 Flush Tanks	125.00	65.00	70.00	60.00	75.00	55.00
Total	$90,445	$34,075	$60,310	$37,640	$50,095	$34,755

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.25 to 2.45 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27 to $28; light sections, 12 to 14 lbs., $34 to $36; old iron rails, f. o. b. New York, $20 to $21; old steel rails, short lengths, $14 to $14.50; old steel rails, re-rolling lengths, $13.50 to $14.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.00 to $28; light rails, 25 to 45-lb., $30; 20-lb., $31; 16-lb., $32; 12-lb., $34; 10-lb., $36, and 8-lb., $40.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.86 cts.; over 15-in., 1.86 cts.; angles 3 × 2 and up to 6 × 6, 1.86 cts.; zees, 3-in. and larger, 1.90 cts.; tees, 3-in. and larger, 1.90 cts.; steel bars, half extras, 1.76 cts.
Pittsburg—Beams and channels, up to 15-in., 1.70 cts.; over 15-in., 1.80 cts.; angles, 3 × 2 × ¼-in. thick, up to 6 × 6-in., 1.70 cts.; 8 × 8 and 7 × 3½-in., 1.80 cts.; zees, 3-in. and larger, 1.70 cts.; tees, 3-in and larger, 1.75 cts.; bulb angles and deck beams, 2 cts. Under the steel bar card, angles, channels and tees under 3-in. are 1.70 cts., base, for Bessemer and open hearth, subject to half extras on the standard steel bar card.

PLATES AND SHEETS—
New York—at tidewater—The following prices are based on carload lots, with 5 cts. extra for less than carload lots. Terms, net cash in 30 days:

Tank plates, 6¼ to 14 ins. wide	**$1.86 to $1.96**
14½ to 100 ins. wide	**1.96 to 2.00**
Flange and boiler test	**1.96 to 2.06**
Marine	**2.26 to 2.36**
Locomotive, fire-box	**2.75 to 3.50**
Still bottoms	**2.14½ to 2.29½**

Note—Plates more than 100 ins. in width, 5 cts. extra per 100 lbs.; plates 3-16-in. in thickness, $2 extra; Nos. 7 and 8 gage, $3 extra; No. 9, $5 extra.
Pittsburg—Tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—
Pig Iron:
At New York—tidewater—

Northern—	
No. 1 X foundry	$19.75 to $21.25
No. 2 X foundry	19.25 to 20.75
No. 2 plain	18.75 to 21.25
Gray forge	18.25 to 19.75
Virginia—	
No. 1 foundry	23.50 to 24.50
No. 2 foundry	23.00 to 24.00
Basic	21.00 to 22.00
Southern—	
No. 1 foundry	21.75 to 23.75
No. 2 foundry	21.25 to 23.25
No. 3 foundry	20.75 to 22.75
No. 4 foundry	22.25 to 22.25
No. 1 soft	19.75 to 21.75
No. 2 soft	19.25 to 21.25
Gray forge	18.75 to 19.75
Mottled	18.25 to 19 25
At Pittsburg, f. o. b. cars—	
No. 2 foundry	19.00 to 20.00
Gray forge	18.50 to 19.00
Bessemer iron	20.00 to 20.50
Ferromanganese	53.00 to 54.50
At Chicago—	
Lake Superior Charcoal	25.00 to 25.50
Northern Coke Foundry, No. 1	19.75 to 20.25
Northern Coke Foundry, No. 2	19.25 to 19 75
Northern Coke Foundry, No. 3	18.75 to 19 25
Northern Scotch, No. 1	20.75 to 21.25
Ohio Strong Softeners, No. 1	20.75 to 21.25
Ohio Strong Softeners, No. 2	20.25 to 20.75
Southern Coke, No. 1	19.85 to 20.35
Southern Coke, No. 2	19.35 to 19.85
Southern Coke, No. 3	18.85 to 19.35
Southern Coke, No. 4	18.35 to 18.85
Southern Coke, No. 1, Soft	19.85 to 20.35
Southern Coke, No. 2, Soft	19.35 to 19.85
Southern Gray Forge	17.35 to 17.85
Southern Mottled	16.35 to 16.85
Malleable Bessemer	19.00 to 19 50
Standard Bessemer	22.40 to 22.90
Jackson Co. and Kentucky Silvery, 6%	30.40 to 30.90
Jackson Co. and Kentucky Silvery, 8%	32.40 to 32.90
Jackson Co. and Kentucky Silvery, 10%	34.40 to 34.90

Cast-iron Pipe:
New York—Carload lots, net tons, 6-in., at tidewater, $32.50 to $33.
Chicago—4-in. water pipe, $37 to $38; 6-in. to 12-in., $36 to $37; over 12-in. $35 to $36, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $20 to $23 per ton at New York; Trinidad refined, $23 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $35.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 13½ to 13¾ cts.; electrolytic, 13¼ to 13½ cts.; casting, 13 to 13¼ cts.
Lead:
New York, spot, 4.05 to 4.15 cts.
Spelter:
New York, spot, 4.50 to 4.55 cts.
Tin:
New York, spot, 29.75 to 30.25.

CIVIL SERVICE EXAMINATIONS.

MECHANICAL AND ELECTRICAL DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Jan. 8, 9, 10, to secure eligibles from which to make certification to fill two vacancies in the position of mechanical and electrical draftsman, one at $1,300 and the other at $1,500 a year, in the office of the Chief of Ordnance, War Department, and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 20 years. Application Form, 1312.

FOREMAN MECHANIC.—California.—An examination will be held on Dec. 30, by the U. S. Civil Service Commission to secure eligibles from which to make certification to fill a vacancy in the position of foreman mechanic, $1,200 a year, Quartermaster's Department at Large, Pacific Branch, U. S. Military Prison, Alcatraz Island, Cal., and vacancies requiring similar qualifications as they may occur in any branch of the service. Applicants must indicate in their applications that they have a full knowledge of handling laundry work and machinery, such as engines, mangles, dry houses, and washing machines. Application Form 1093.

BRIDGE DESIGNER.—Albany, N. Y.—The following persons passed the recent examination held by the State Civil Service Commission for the position of bridge designer in the State service; salary, $1,500 to $2,100 a year:

Anson H. Higley, 504 West 143d St., New York	97.
J. Cyrus Podmore, 155 Sixth Ave., Troy, N.	92.50
Henry Auerbach, 155 Vernon Ave., Brooklyn, N. Y.	90.
O. Von Voigtlander, 317½ Seward Pl., Schenectady, N. Y.	90.50
Cecil N. Haggart, 710 Maplewood Ave., Anbridge, Pa.	86.80
John MacGregor, 121 Stanbridge St., Norristown, Pa.	84
H. E. Brainerd, 2182 Fifth Ave., Troy, N. Y.	79.60
Harold Levy, 214 Midwood St., Brooklyn, N. Y.	76.53
E. L. Pierce, 113 Winthrop St., New Britain, Conn.	75.74

TRANSIT INSPECTOR.—Albany, N. Y.—Of 339 persons who passed the recent examination held by the State Civil Service Commission for the position of transit inspector, Public Service Commission; salary, $1,200 a year, the first 25 on the list were:

Charles P. Calhoun (veteran), Holmes Ave., Harrison, N. Y.	88.36
George McLeod (veteran), 1089 Gates Ave., Brooklyn, N. Y.	80.40
Charles H. VanDuyne (veteran), 737 East 237th St., New York	79.98
Charles J. Pommerer, 366 Ninth Ave., New York	93.46
Louis G. Schultz, 260 Lenox Ave., New York	92.60
William J. Donovan, 523 West 151st St., New York	92.30
Frederic V. B. Goodwin, 988 Ogden Ave., New York	92.04
Robert E. Anthony, 353 East 17th St., Flatbush, Brooklyn, N. Y.	91.80
John M. Taylor, 27 Phillip St., Amsterdam, N. Y.	91.58
Bernhard H. Levy, 134 West 104th St., New York	91.50
Benjamin Z. Stanger, 16 East 111th St., New York	91.36
James J. Grace, 529 Lexington Ave., New York	91.32
Thomas A. Kinsley, 278 Alexander Ave., New York	91.30
Emil F. Prantner, 1377 Prospect Ave., New York	91.22
Alfred Brady, 451 East 119th St., New York	91.22
Sidney W. Gay, 840 Flatbush Ave., Brooklyn, N. Y.	91.20
John J. Rorke, 658 Carroll St., Brooklyn, N. Y.	91.04
William Lustgarten, 277 Broadway, New York	90.86
Edward D. Hutchinson, Atlantic and Brooklyn Aves., Hempstead, N. Y.	90.40
Theophile F. Sewards, 224 West 141st St., New York	90.02
Leo E. Gannon, 1249 Tinton Ave, New York	89.94
Patrick Henry, 213 East 56th St., New York	89.60
Avery M. Schermerhorn, 131 East 116th St., New York	89.58
John F. Callahan, 164 West 64th St., New York	89.56
Frederick Eisen, 178 Van Buren St., Westchester, N. Y.	89.52

For other Proposal Advertisements see pages 59, 60, 61, 62, 63, 64, 65, 66 of Advertisements and Construction News page 184.

HIGHWAY BRIDGE

FOR SALE

Sealed bids will be received by the undersigned until 12 o'clock M., December 16, 1907, for the sale of the superstructure of the present Temporary Highway Bridge across the Connecticut River at Hartford, Connecticut.

This bridge is a through bridge, built of steel, 30 feet center to center of trusses; wooden floor; composed of four spans, lengths as follows:

Three spans of 116 feet each;
Two spans of 136 feet each;
Three spans of 106 feet each;
One span of 80 feet

and designed to carry a fourteen-ton trolley car.

The floor beams are twenty-inch 80-pound I's.

Bidders will please state time in which bridge can be removed.

Further information will be given by application to the undersigned.

The CONNECTICUT RIVER BRIDGE AND HIGHWAY DISTRICT,
Morgan G. Bulkeley, President.
John T. Henderson,
Deputy Chief Engineer. 23-2t

COMMONWEALTH OF MASSACHUSETTS.
Charles River Basin Commission.

Sealed proposals will be received at the office of the Charles River Basin Commission, 367 Boylston Street, Boston, Mass., until 2:30 o'clock P. M., of Monday, January 6, 1908, for building Section 6 of the Boston Marginal Conduit and Section 4 of the Boston Embankment, requiring about 18,000 cubic yards of earth fill, 29,000 linear feet of piles, 3,000 cubic yards of concrete masonry, 240 cubic yards of stone masonry, 400 tons of riprap, the removal of about 600 cubic yards of masonry and the construction of three cofferdams. The work to be done includes the construction of a gate-chamber at the junction of the existing Stony Brook conduits and the Boston Marginal Conduit. The Embankment will be made along the Boston side of the Charles River at the Fens and will be about 140 feet long and 100 feet wide. Pamphlets containing further information for bidders, forms of proposal, contract and specifications will be ready about December 9th, and will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, No. 367 Boylston Street, Boston, where also plans may be seen. The printed form must be used in making proposals. The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth. HENRY S. PRITCHETT, Chairman; HENRY D. YERXA, JOSHUA B. HOLDEN, Charles River Basin Commission; HIRAM A. MILLER, Chief Engineer; WILLIAM S. YOUNGMAN, Secretary. 23-3t

DEPARTMENT OF THE INTERIOR,
Office, Superintendent, U. S. Capitol Building and Grounds, Washington, D. C., November 23, 1907. In accordance with the terms of the advertisement issued by this office, and dated November 21, 1906, calling for equipment for the Heating, Lighting and Power Plant for the U. S. Capitol and Congressional Buildings, proposals will be received and publicly opened at this office at 12 o'clock, noon, Wednesday, January 15, 1908, for Boiler Feed Pumps, Barometric Condensers, Centrifugal Pumps, Motors, Cranes and Chimneys. Bids will be submitted for each item separately. Each proposal must be in duplicate and accompanied by a certified check or approved surety bond in the sum of five per cent. (5%) of the total amount of the bid. The right is reserved to reject any or all bids, and to waive technicalities or informalities. ELLIOTT WOODS, Superintendent U. S. Capitol Building and Grounds. 23-4t

Situations Open

HYDRO-ELECTRICAL ENGINEER, preferably one who has just finished a large dam proposition, giving history of experience, reference and salary expected. Address BOX 54, Easton, Pa. 23-2t

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